



NONRENEWABLE AND RENEWABLE RESOURCES

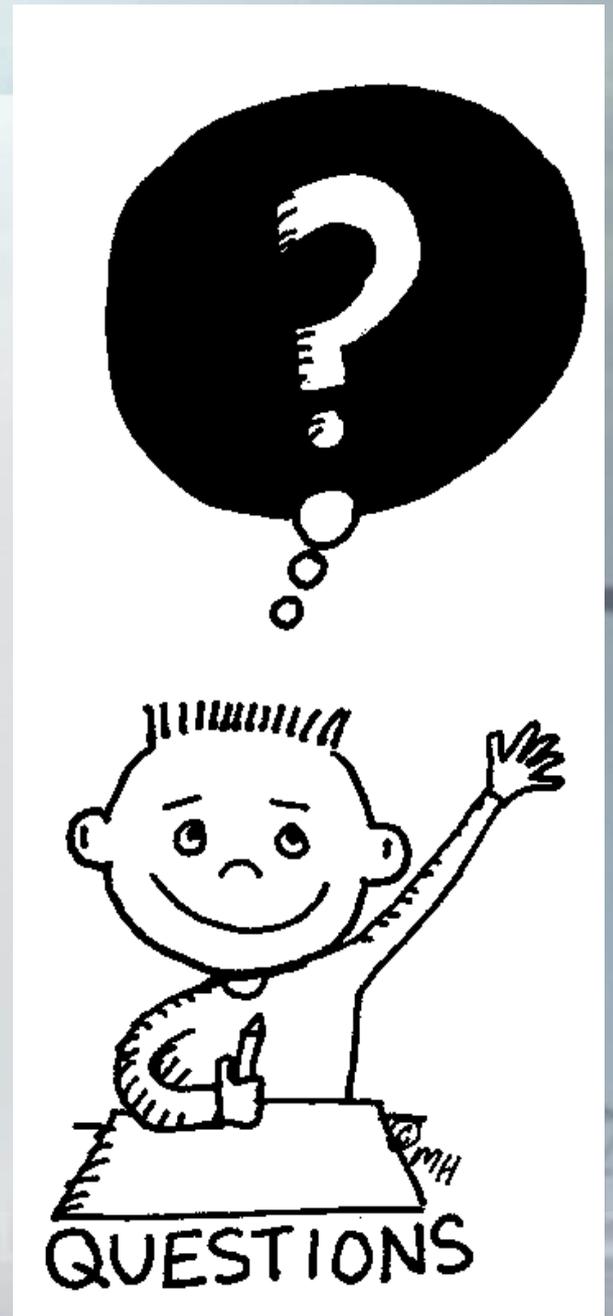
HMMMM....

**What do you think
nonrenewable
resources are?**

Break it down...

Nonrenewable?

Resource?

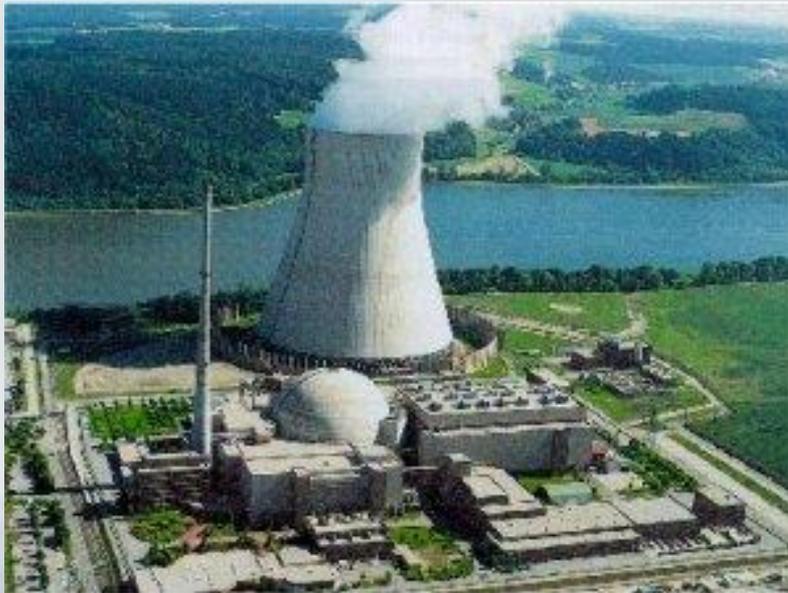


NONRENEWABLE RESOURCES



A nonrenewable resource is a natural resource that cannot be re-made or re-grown at a scale comparable to its consumption.

NUCLEAR ENERGY



Nuclear fission uses uranium to create energy.

Nuclear energy is a nonrenewable resource because once the uranium is used, it is gone!

COAL, PETROLEUM, AND GAS

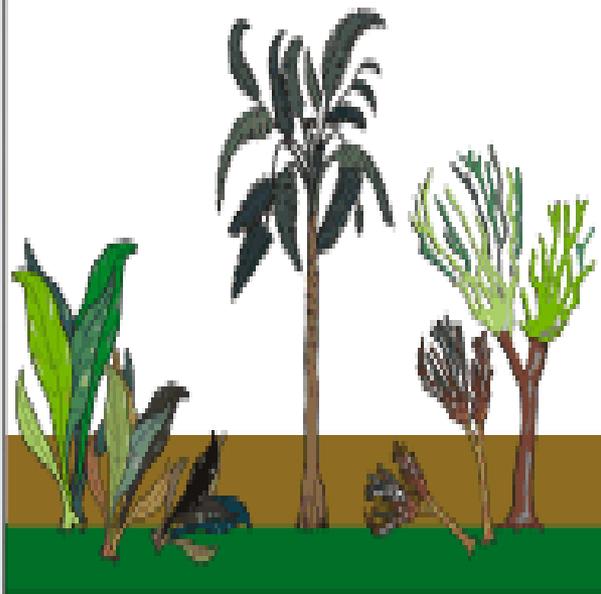
Coal, petroleum, and natural gas are considered nonrenewable because they can not be replenished in a short period of time. These are called fossil fuels.



HOW IS COAL MADE ???

SWAMP

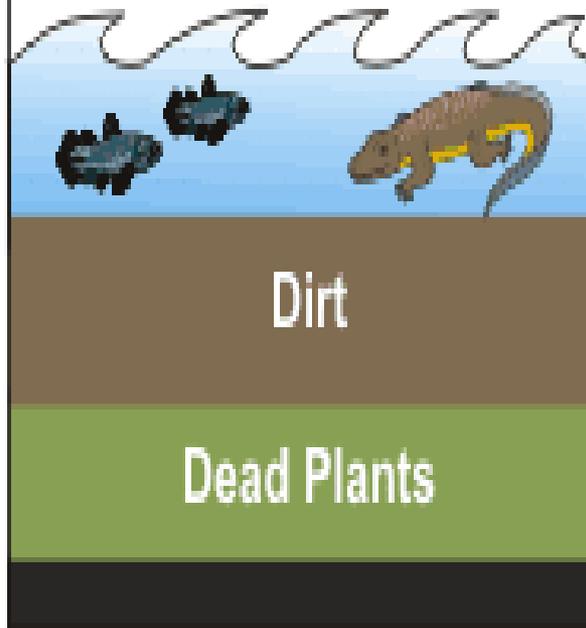
300 million years ago



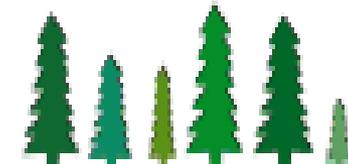
Before the dinosaurs, many giant plants died in swamps.

WATER

100 million years ago



Over millions of years, the plants were buried under water and dirt.

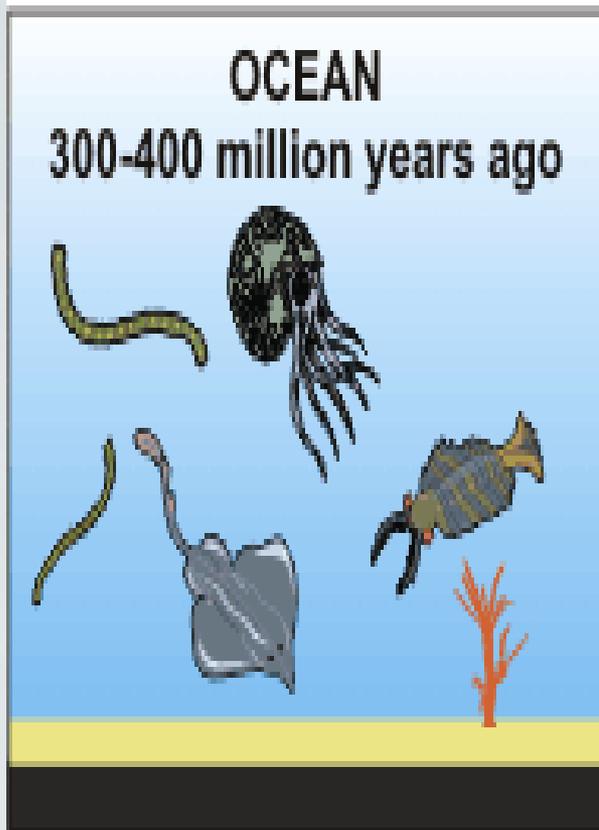


Rocks & Dirt

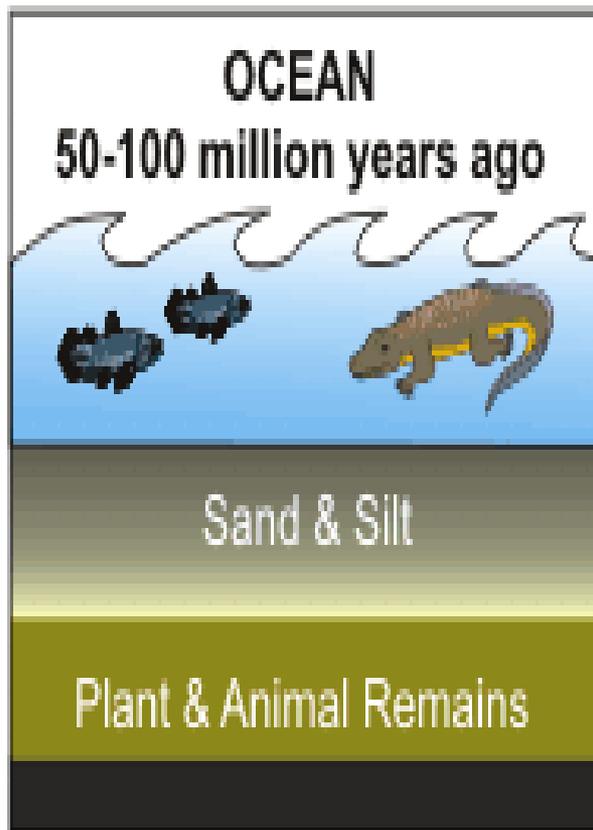
Coal

Heat and pressure turned the dead plants into coal.

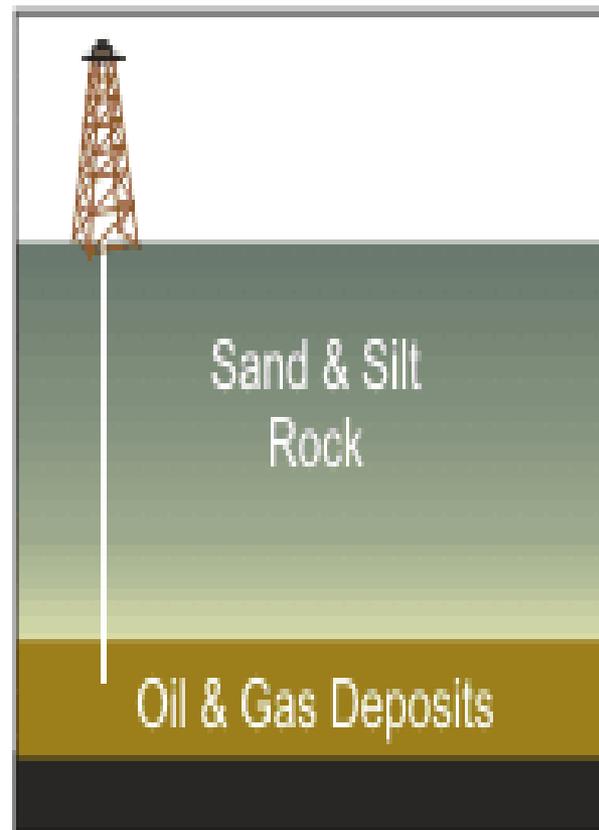
HOW ARE OIL AND GAS MADE ???



Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.



Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.



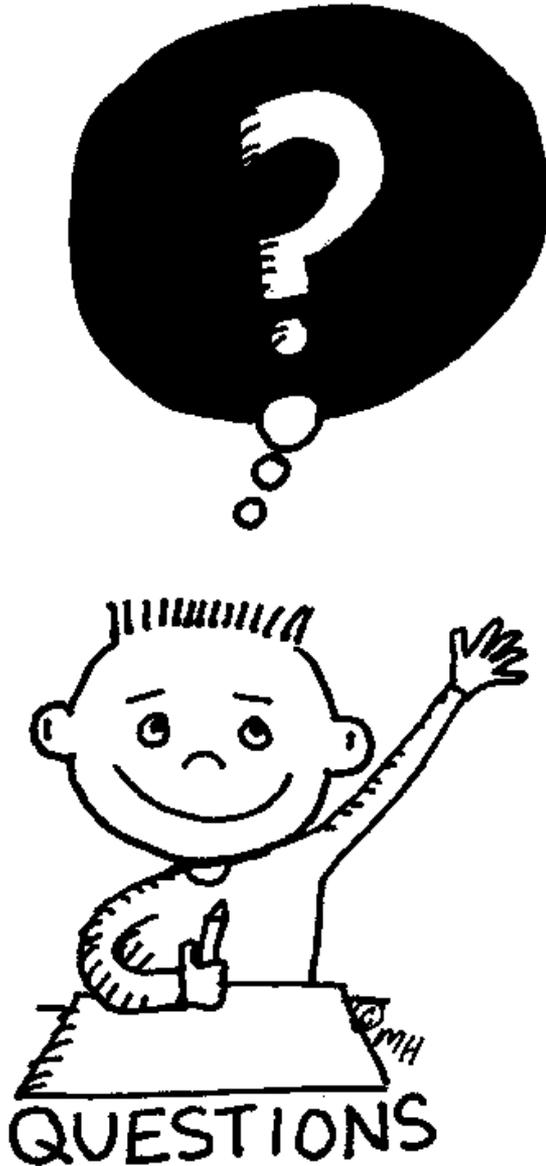
Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

WHAT WAS THE DIFFERENCE BETWEEN COAL AND OIL/GAS?



HMMMM...

If nonrenewable resources are resources that cannot be re-made at a scale comparable to its consumption, what are renewable resources?



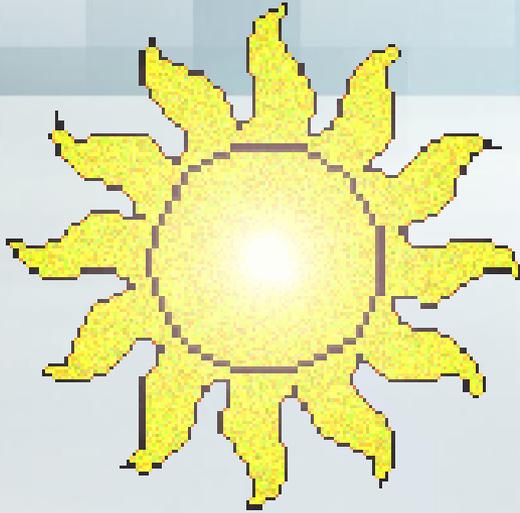
RENEWABLE RESOURCES

Renewable resources are natural resources that can be replenished in a short period of time.

- **Solar**
- **Geothermal**
- **Wind**
- **Biomass**
- **Water**



SOLAR



Energy from the sun.



Why is energy from the sun renewable?

GEO THERMAL

**Energy from
Earth's heat.**

**Why is energy
from the heat of
the Earth
renewable?**



WIND



**Energy from
the wind.**

**Why is energy
from the wind
renewable?**

BIOMASS

**Energy from
burning organic
or living matter.**

**Why is energy
from biomass
renewable?**



WATER or HYDROELECTRIC

**Energy from the
flow of water.**

**Why is energy of
flowing water
renewable?**



HOOVER DAM

SUMMARY

What are the differences between nonrenewable and renewable resources?

