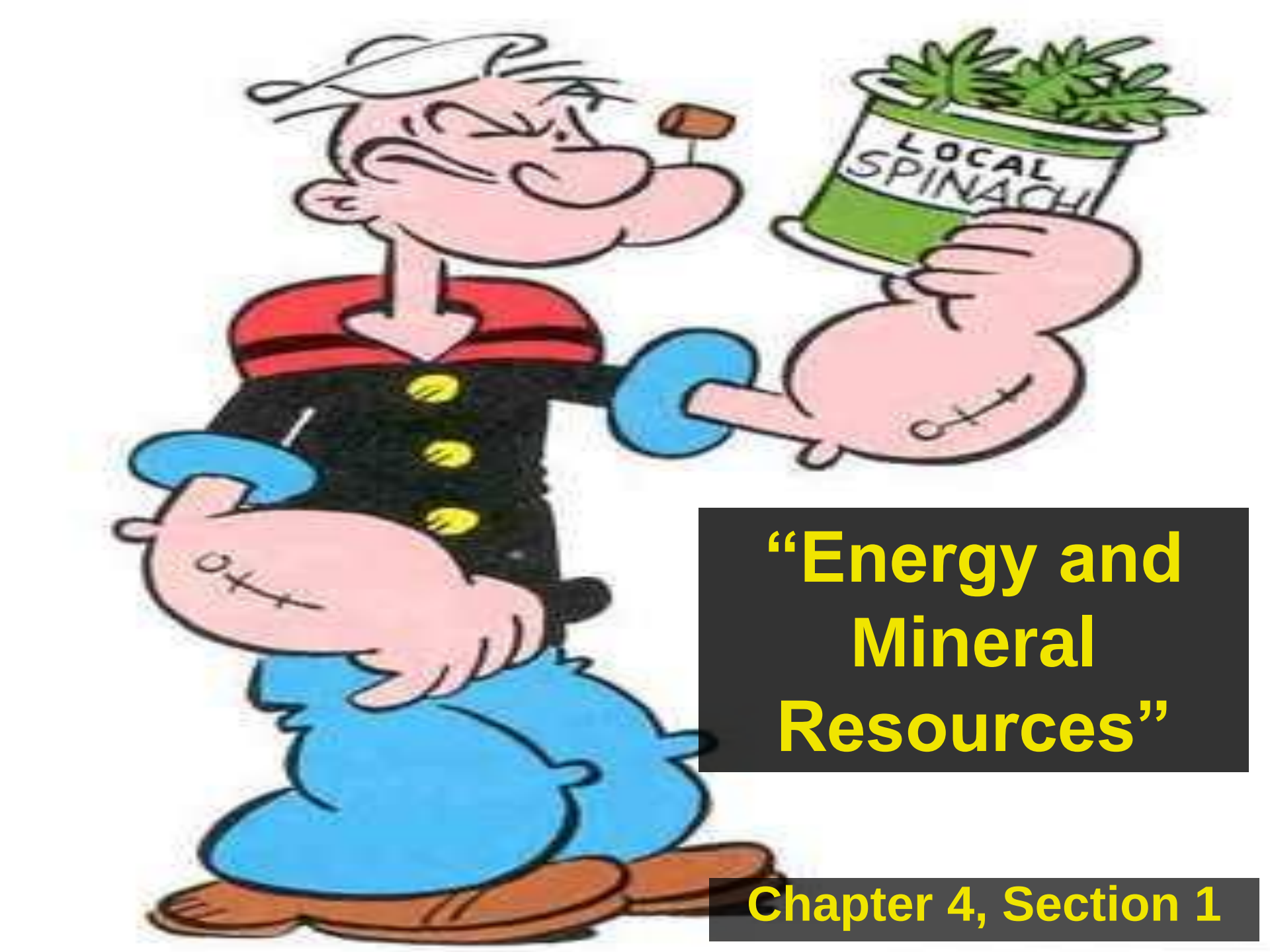
Warm-up

1. Define “Resource” in your own words.

2. What’s the difference between a Renewable Resource and a Non-Renewable Resource?

3. List 3 Resources that you have used in some way *today.*



"Energy and Mineral Resources"

Chapter 4, Section 1

Resources:

Necessary items.

Used to **DO something.**

1. Renewable Resource:

- Replenished **quickly**

2. Nonrenewable Resource:

- Replenished **VERY slowly**
- We **can't get more** in time…
- Bye Bye.

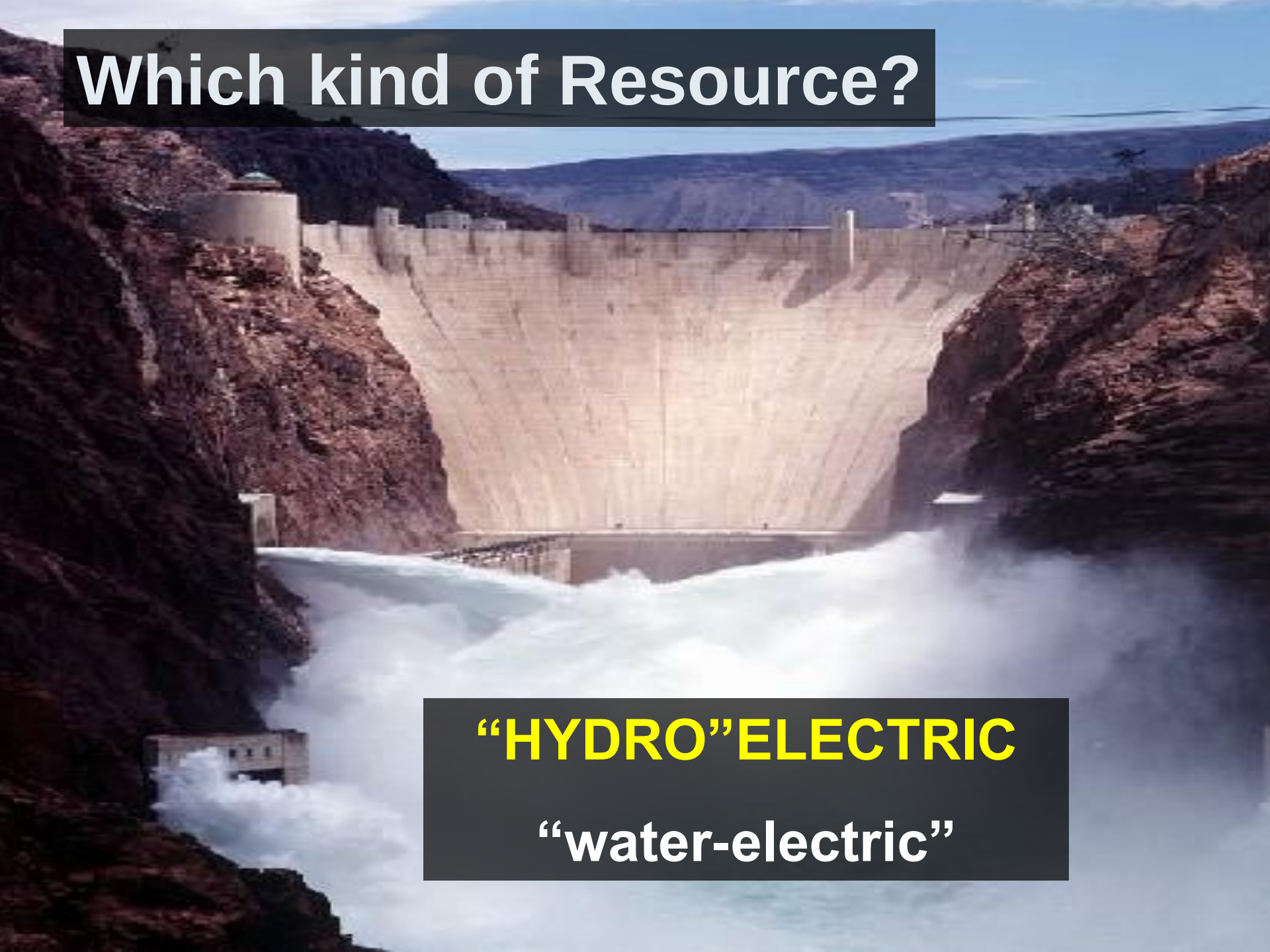
Which kind of Resource?


COTTON!

Which kind of Resource?

Which kind of Resource?

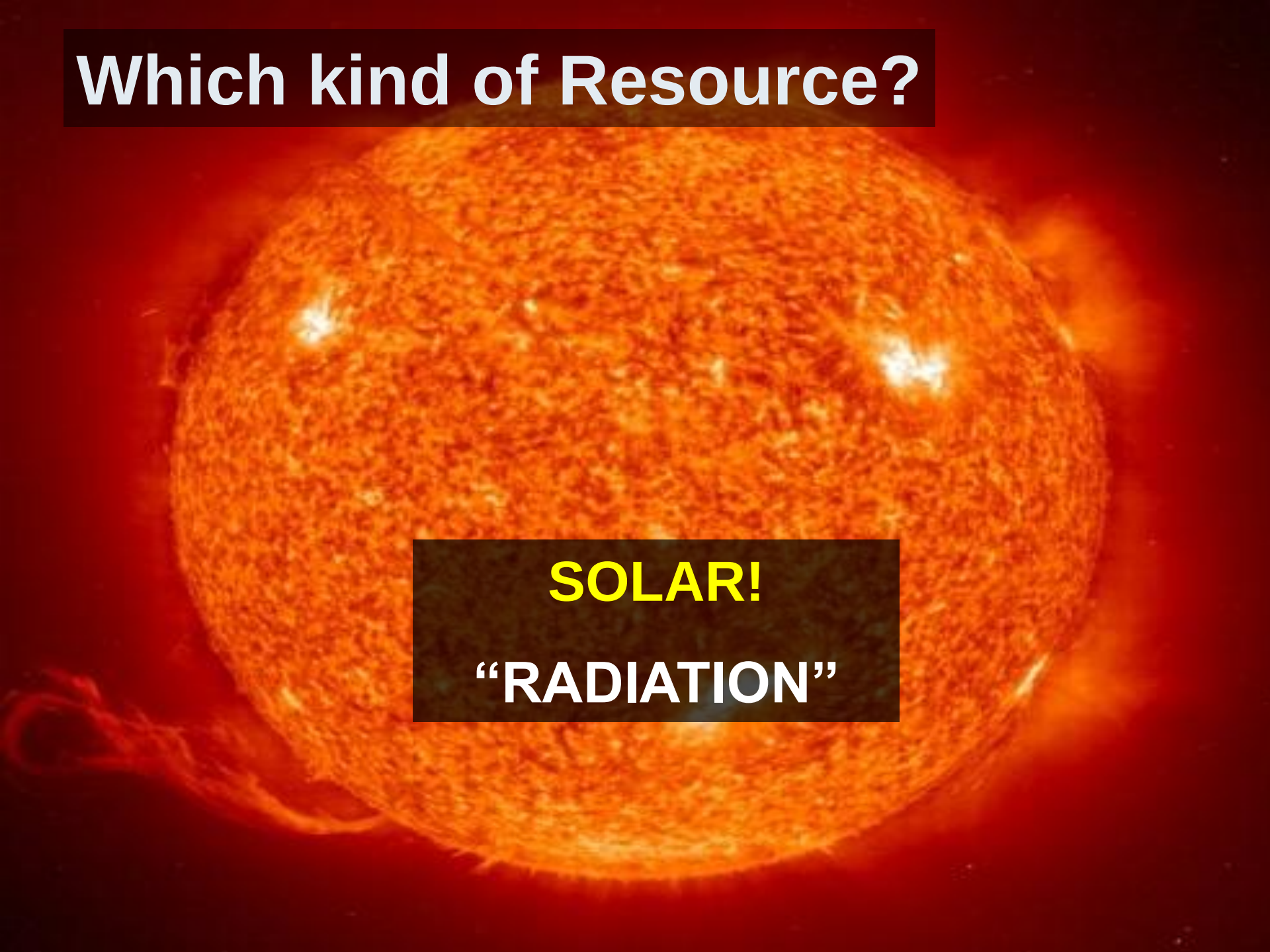
Which kind of Resource?



“HYDRO”ELECTRIC

“water-electric”

Which kind of Resource?



SOLAR!

“RADIATION”

Which kind of Resource?

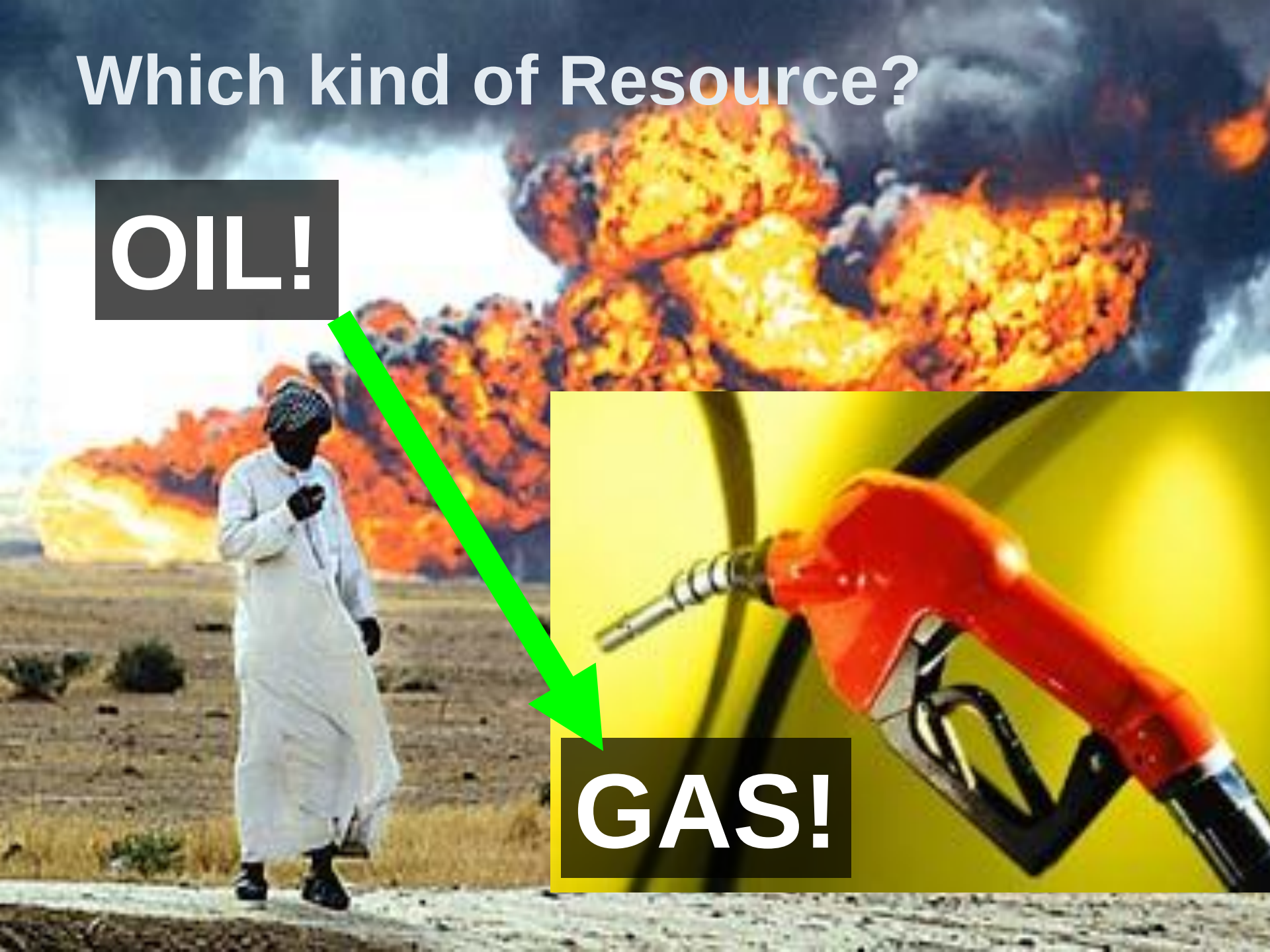

Which kind of Resource?
COAL!
Electricity!

Hey!

Where'd you get that Electricity?!

From?	Name	Renewable? Nonrenewable?
Wind	Wind Turbine	Renewable! ☺
Water	Hydro Electric	Renewable! ☺
Sun	Solar	Renewable! ☺
COAL	"Dirty" Electricity	Nonrenewable! ☹

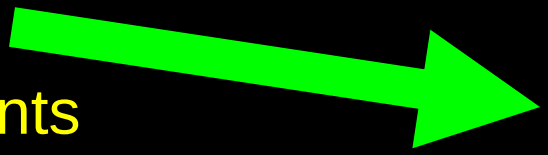
Which kind of Resource?



Fossil Fuels

- **Sources** of **Energy!**
- Coal, oil, natural gas

- **Coal:**
  - Dead plants
  - Heat & Pressure
  - Long time.

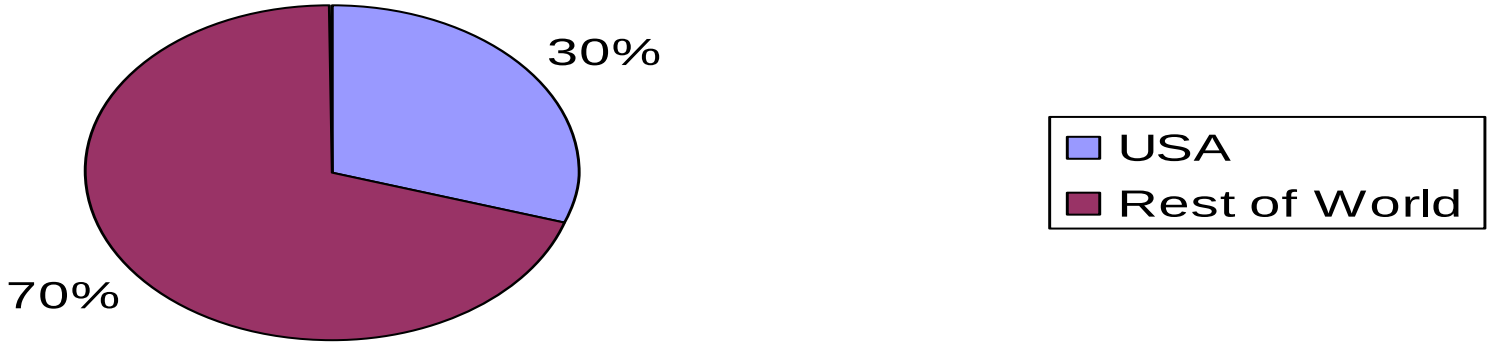


Metamorphic Rock!

- **Oil & Natural Gas:**
  - Dead Plants & Animals!
  - Buried under ancient seas…
  - Long time.

Percent of Global Population

Mineral Resource Use



Tar Sands & Oil Shale

- **Sand?**
  - Sediment.
  - Broken Rock.
- **Shale?**
  - Type of Sedimentary Rock.
  - Layers.
- **Tar?...Oil?**
  - Petroleum. *(liquid)*
  - Fossil Fuel.

ENERGY ROCKS

EXPENSIVE

Mineral Deposits

Ore:

- material from which **minerals can be taken at a profit**
- **Make money.**

Igneous Processes:

- **Hydrothermal Solutions**
- **Magma cooling**
- **Useful mineral deposits**

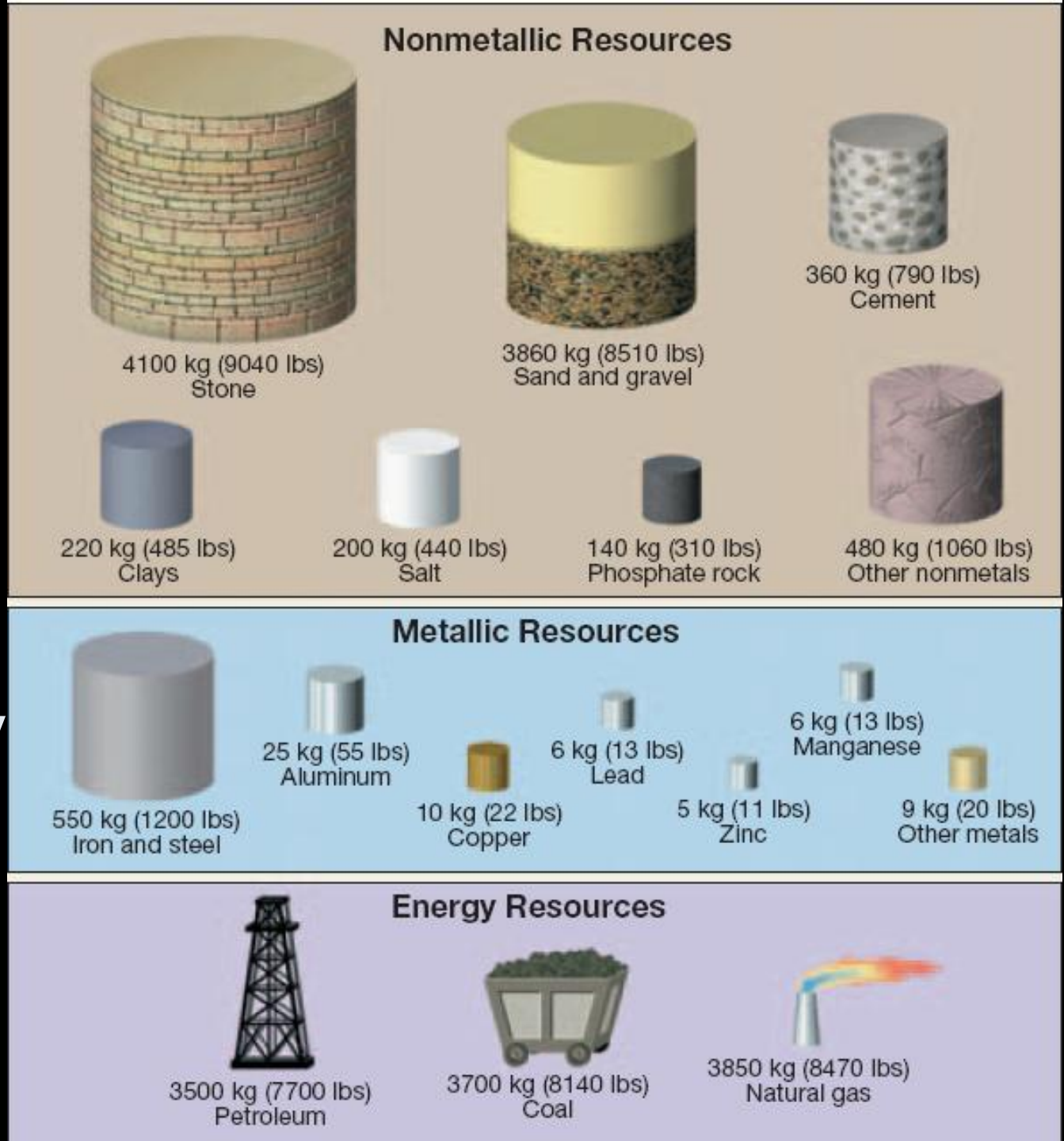
Placer Deposits

- **Heavy minerals settle quickly**
- Less dense particles remain suspended and continue to move.


Mountain Top Mining

Pit Mining

U.S. per Capita use of Mineral and Energy Resources



Assignment

- Read Ch. 4, Sect. 1 (pg. 94-101)
- Do Section 4.1 Assessment #1-6, 8 (pg. 101)