

- WHATE IF IT FINISHES...?
- PRESENTED BY –MD. JULLU NADAB
- KV MOTIHARI



# WHATE IS THIS ?












# Fossil Fuels

- A ***fuel*** is a substance that provides a form of energy.
- Such as ***heat, light, electricity, or motion.***
- As a result of a **chemical change.**



# Combustion

- The process of burning a fuel is called **combustion**.
- Gasoline + Oxygen  Carbon Dioxide + Water

# Fossil Fuel



# What are Fossil Fuels

- Fossil Fuels are the energy rich substances formed from the remains of **once-living organisms**.
- The three major fossil fuels are **coal, oil and natural gas**.
- Fossil fuels are made of **hydrocarbons**, they contain carbon and hydrogen's.

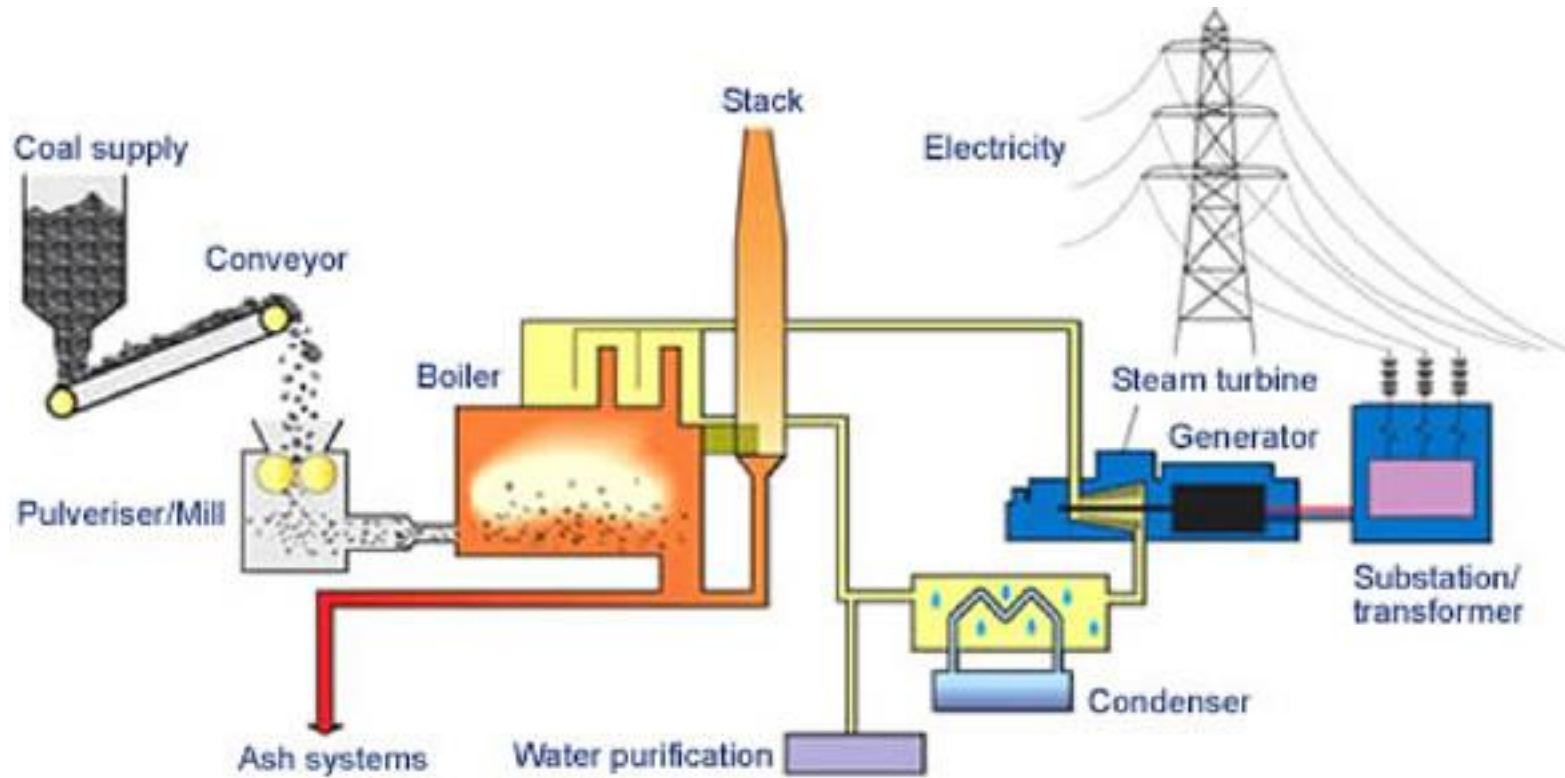
# Coal



# Coal

- Coal is a solid fossil fuel formed from **plant remains**.
- Known deposits of coal (and other fossil fuels) can be obtained using current technology are called **reserves**.
- Coal is the most plentiful fossil fuel in the U.S.
  1. **Its easy to transport**
  2. **It provides lots of energy when burned.**

# Coal

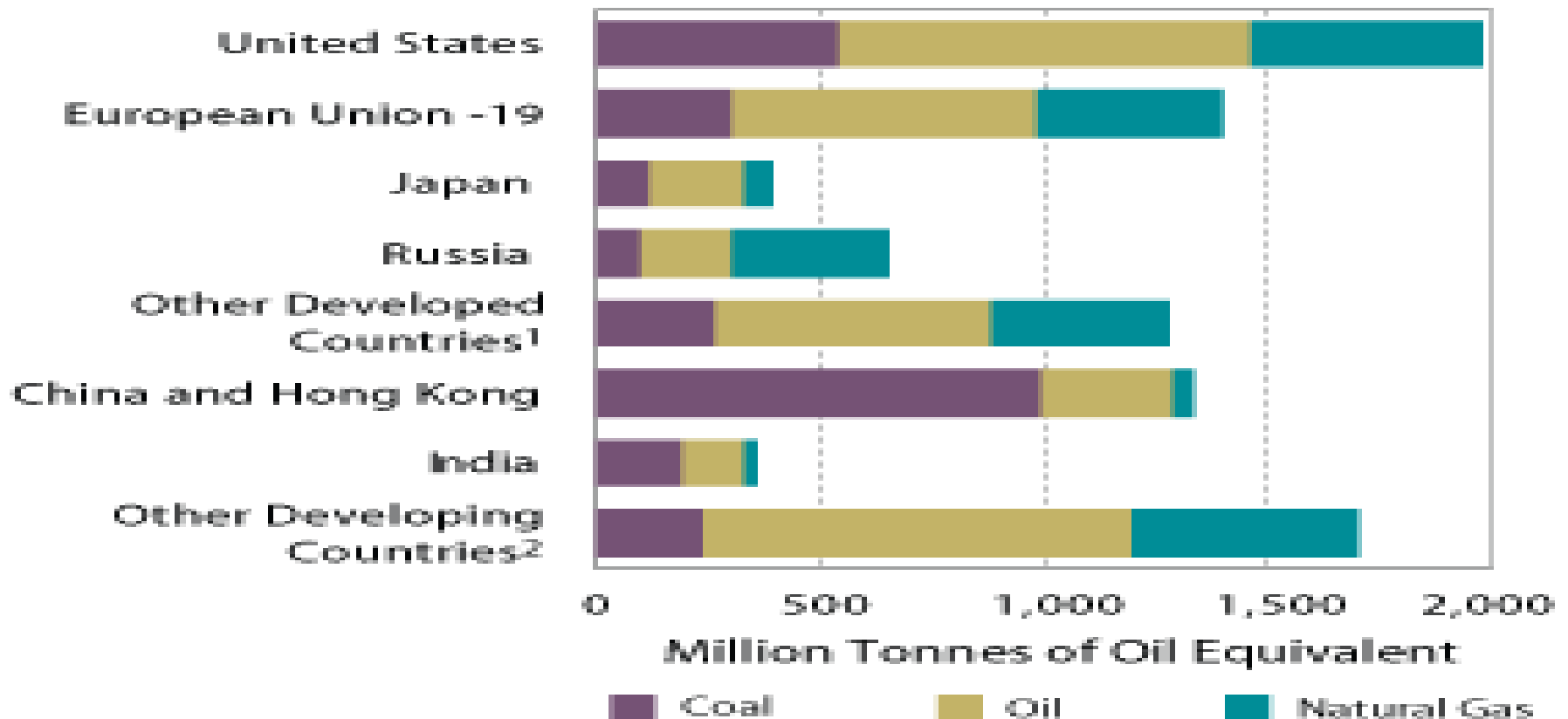


# OIL

- Oil is a **thick, liquid fossil fuel**, it is formed from remains of small **animals, algae and protists**.
- Petroleum is another name for **oil**.
- The United States consumes about **one third** of all the oil produced in the world.
- Only **3%** of the world's supply is located in this country.

# Fossil Fuel Consumption

## Global Fossil Fuel Consumption in 2004



<sup>1</sup> Includes 25 countries.

<sup>2</sup> Includes 135 Countries

Source: EarthTrends and the International Energy Agency, 2006.



# Refining Oil

- When oil is first pumped out of the ground, it is called **crude oil**.
- A factory where crude oil is separated into fuels and other products by heating is called a **refinery**.

# Natural Gas

- The third major fossil fuel is **natural gas**.
- It is a mixture of **methane** and other **gases**.
- Advantages:
  1. **Provides lots of energy**
  2. **Lower levels of air pollutants than coal and oil**
  3. **Its easy to transport.**
- Disadvantage:
  1. **Highly flammable**

# Fuel Supply and Demand

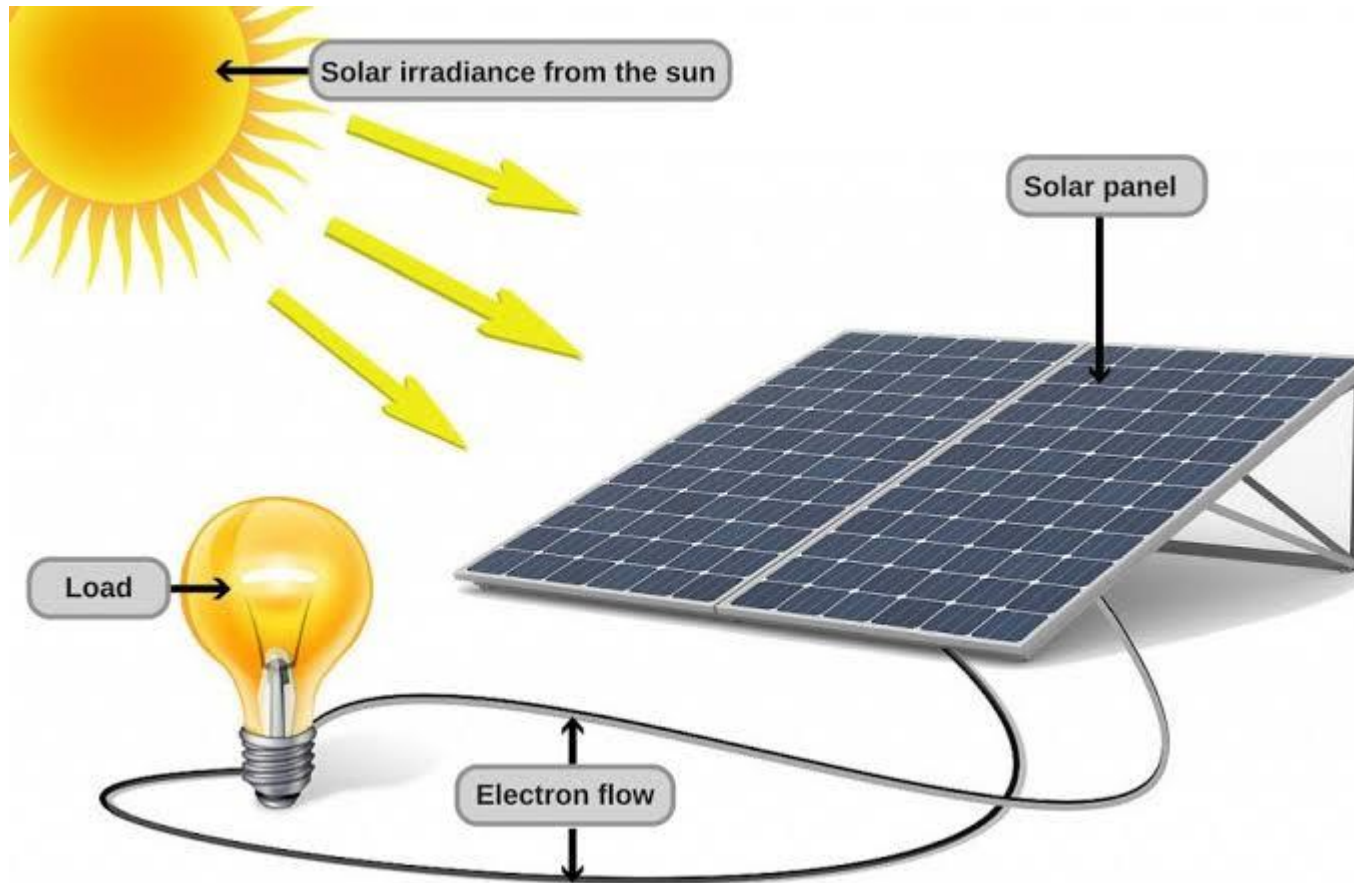


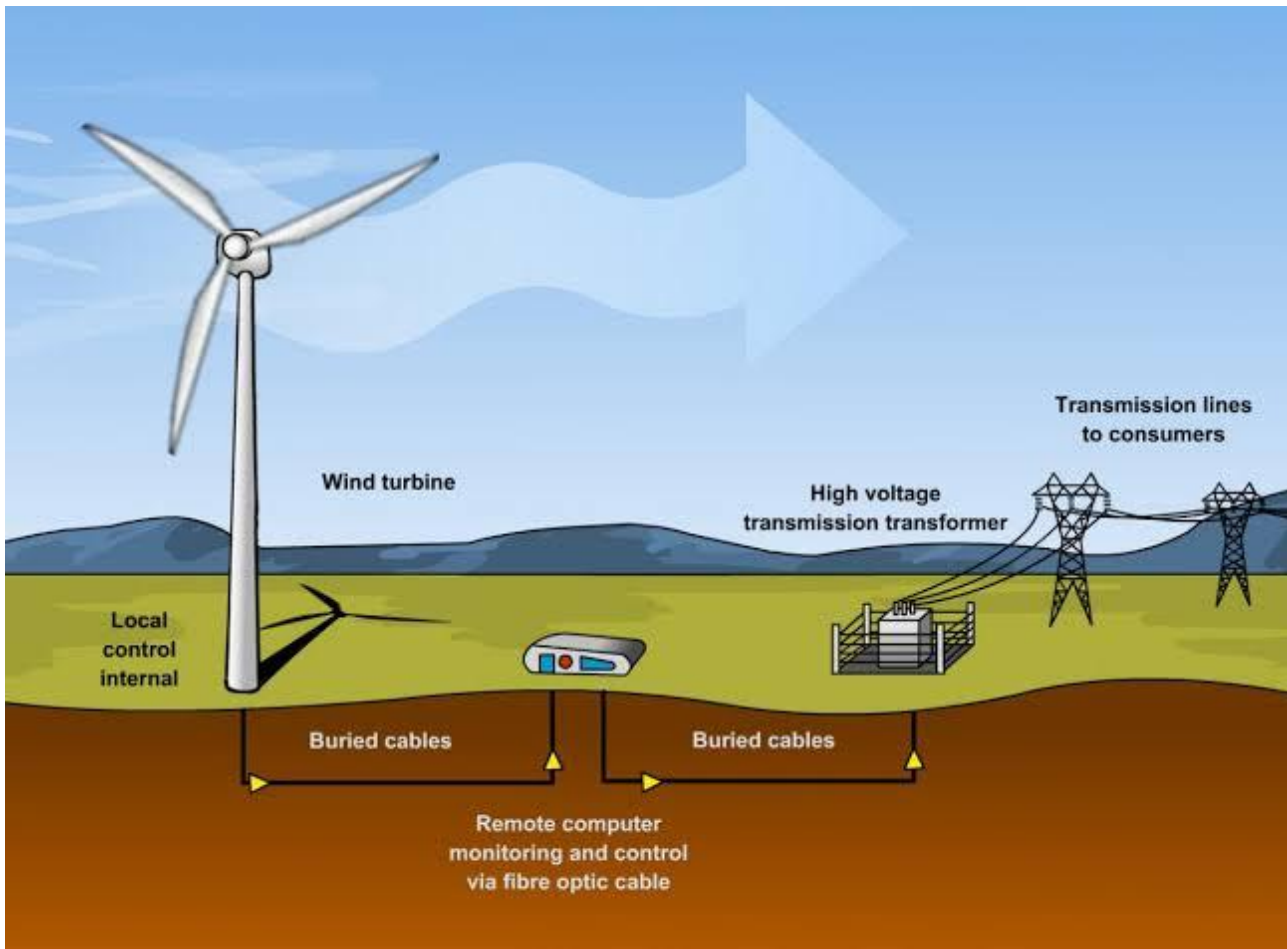
- **Fossil fuel** takes hundreds of millions of years to form.
- Fossil fuels therefore are considered a **nonrenewable resource**.
- **New resources of energy** are needed to replace the decreasing fossil fuel reserves.

## FOSSIL FUEL'S USAGE AND SCARCITY

- ✘ Fossil Fuels, *oil*, *natural gas*, and *coal*, are energy resources that formed millions of years ago from plant and animal life
- ✘ Estimated to provide around **85% of the worlds total energy demands**
- ✘ Relatively inexpensive, which makes fuels for electricity, heating, and transportation available to a greater amount of people
- ✘ It takes around **300 million years to renew** and is being consumed at an alarming rate
- ✘ The world's proven oil reserves of **1,383.2 billion barrels** will last for only **46 years** if oil production and consumption are to remain at current levels, according to BP Statistical Review of World Energy. The world's **natural gas reserves** will also last for just **59 years** if production is to continue at the 2010 rate.

# NEW RESOURCES OF ENERGY







# COMPRESSED NATURAL GAS (CNG)



भारत में साल  
2030 तक 10,000  
CNG स्टेशन  
खोले जाएंगे।

-धर्मेंद्र प्रधान  
(पेट्रोलियम मंत्री)



# COW DUNG CAKES(USE IN VILLAGE, FROM PAST)



# THANK YOU FOR WATCHING



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