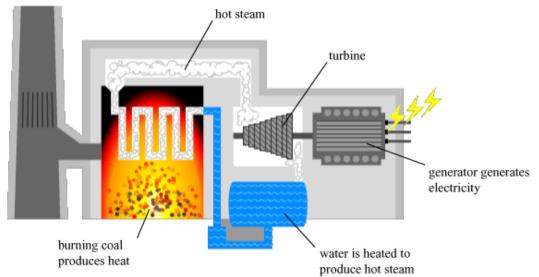
## **ENERGY**

Advantages and Disadvantages

What is the best way to get our energy?

### COAL

- \* Coal is a sedimentary rock, loaded with carbonized vegetation, which can be burned for energy.
- \* It is currently the largest source of electrical energy worldwide.



## COAL

### **Pros**

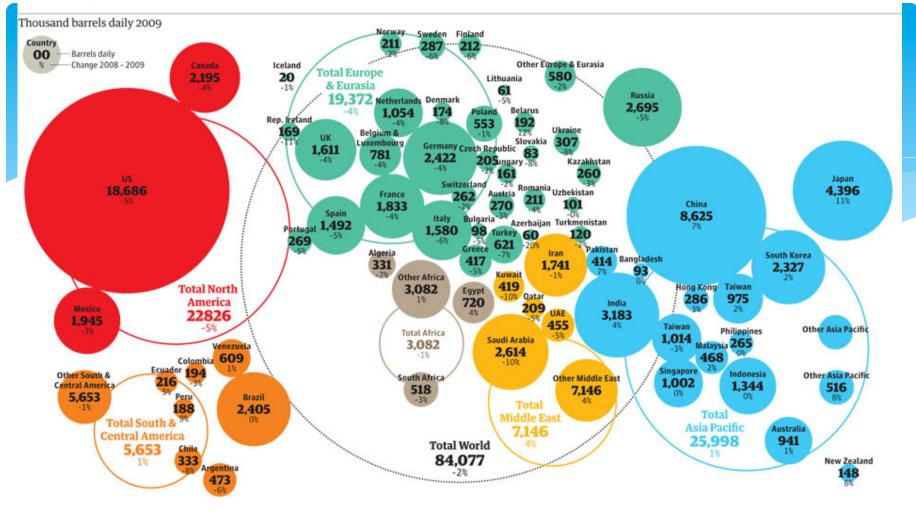
- \* Cheap and plentiful.
- \* High potential contains lots of energy.

- \* Nonrenewable.
- \* Releases CO<sub>2</sub> when burned.
- \* Mining is dangerous.

### OIL

\* Liquefied remains of ancient organisms, which can be extracted from rock and either burned or converted into other materials.

#### Oil consumption around the world







## OIL

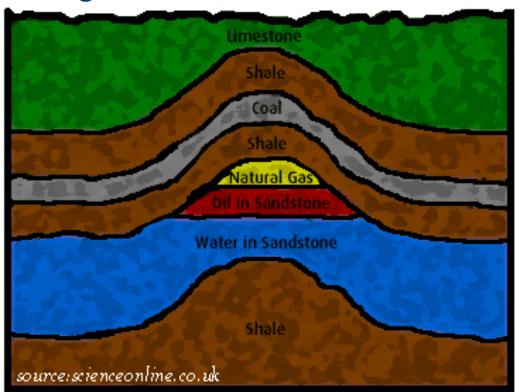
### Pros

- \* Exists in large quantities.
- \* Able to be used in many different ways.

- \* Nonrenewable.
- \* Emits CO<sub>2</sub> when burned.
- \* Environmental hazard.

## NATURAL GAS

\* Flammable gasses found beneath the surface.



## NATURAL GAS

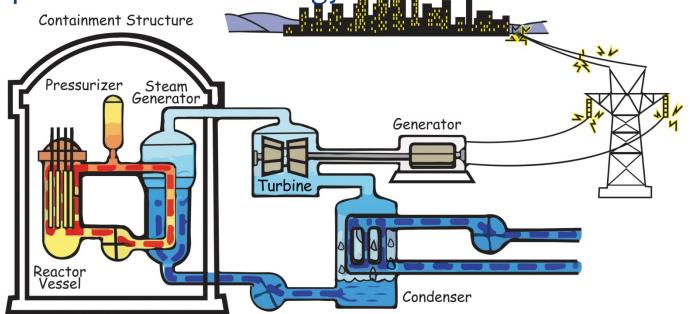
#### Pros

- \* Cleanest fossil fuel.
- \* Burns efficiently.
- Cleaner alternative to gas.

- \* Nonrenewable.
- \* Emits CO<sub>2</sub> when burned.
- \* Contains lots of methane.

### NUCLEAR

\* Nuclear energy is stored in the nucleus of atoms. Large uranium and plutonium atoms are commonly split to access this energy.



## NUCLEAR

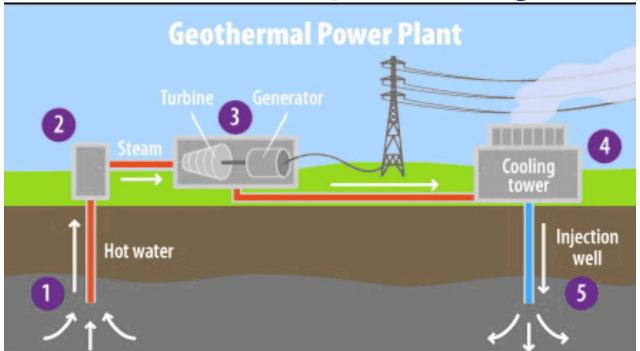
### Pros

- \* Extremely efficient.
- \* Disasters are due to human negligence.
- \* Little greenhouse gas emission.

- Catastrophic risks.
- \* Waste must be stored securely.

### GEOTHERMAL

\* The heat trapped below Earth's surface can be harnessed to save or even produce energy.



## GEOTHERMAL

#### **Pros**

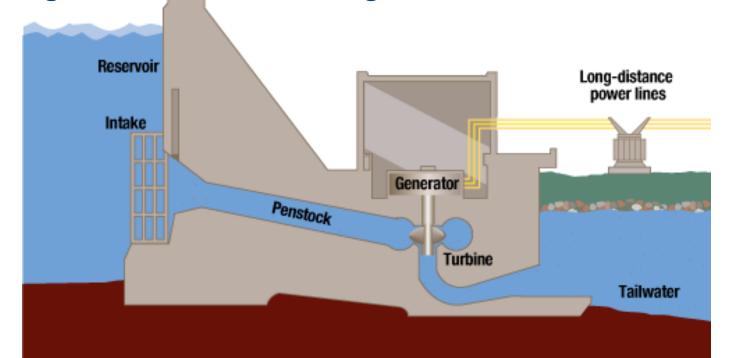
- \* Natural heating/cooling system.
- \* Generally environmentally friendly.
- \* Consistent.
- \* Renewable.

### Cons

\* Expensive to get started.

### HYDROELECTRIC

\* The natural downhill flow of water can be harnessed to generate electrical energy.



### HYDROELECTRIC

#### Pros

- \* Renewable.
- Nearly pollution-free.
- \* Consistent and reliable.

- \* Environmental consequences of damming a river.
- \* Expensive to build dams.

## WIND

\* Kinetic energy of wind can be converted directly into electrical power.



## WIND

### Pros

- Environmentally friendly.
- \* Renewable.

- \* Low potential very difficult to gather enough energy.
- \* Expensive to build.

## **SOLAR**

\* Sunlight can be converted into electricity using various methods.



## SOLAR

### Pros

- \* Renewable.
- \* Environmentally friendly.
- \* Reduces electricity costs.

- \* Expensive to build.
- \* Inconsistent the sun is not always shining.
- \* Requires lots of space.

# What do you think?

\* Write a short paragraph answering the following question:

What do you think is the best form of energy? Why?