

Tick the words that are related to renewable sources of energy

CAN BE REPLACED NATURALLY PLASTICS SOLAR ENERGY CANNOT BE RENEWED
WIND ENERGY GASOLINE COAL FOSSILS FUELS HYDROPOWER PETROL
BIOMASS DIESEL CONTRIBUTE TO GLOBAL WARMING

Label the pictures

BIOMASS – NON-RENEWABLE ENERGY SOURCES - FOSSIL FUELS – GEOTHERMAL –
RENEWABLE ENERGY SOURCES - HYDRO – NUCLEAR – WIND - TIDE – NATURAL GAS –
SOLAR – COAL

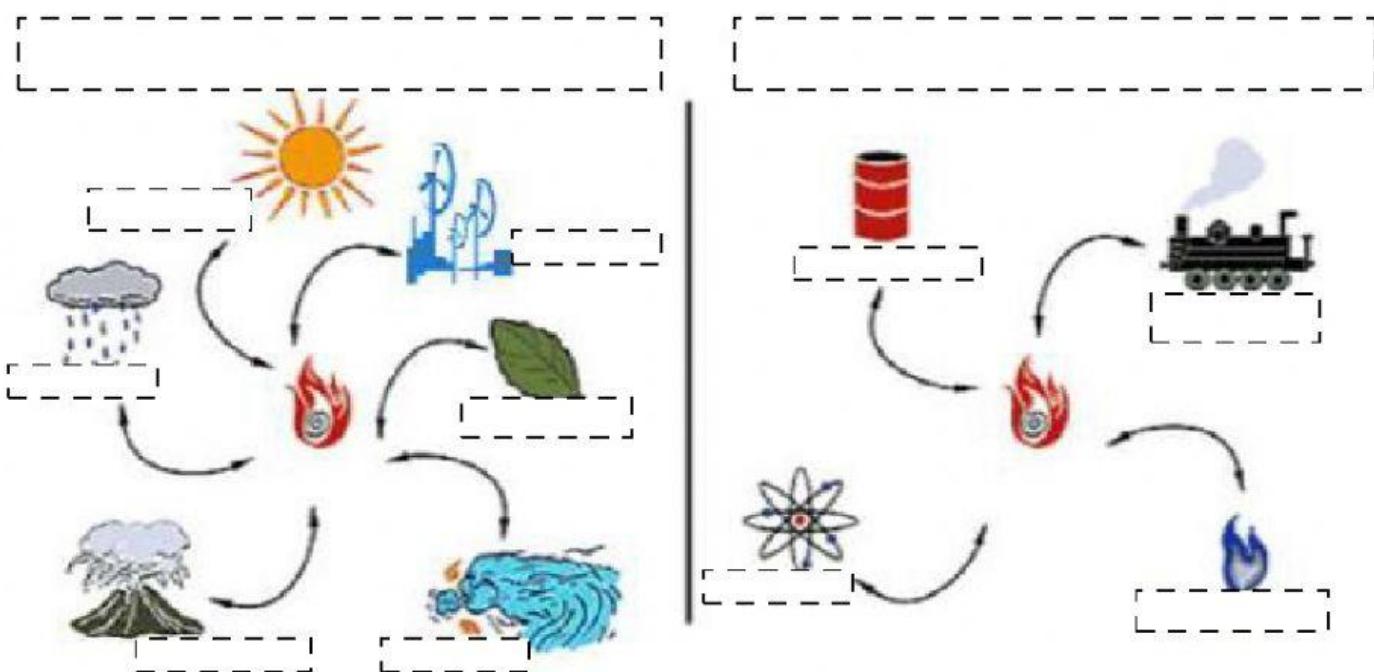


Figure 1. Renewable and non-renewable energy sources.

Match

| | |
|-------------------|--|
| Acid rain | A man-made explosion that occurs as a result of the rapid release of energy from a high-speed nuclear reaction and that produces radiation |
| Solar energy | Energy obtained from the sun |
| Radioactive waste | The process by which waste is separated into different elements |

| | |
|---------------|--|
| Nuclear blast | Precipitation containing a high concentration of acid-forming chemicals, chiefly sulphur dioxide and nitrogen oxides |
| Waste sorting | A by-product of nuclear power generation which is left after the nuclear fuel has been consumed |

Complete the sentences

| | | | | |
|-------------------|---------------------|-------------|---------------------------|---------------|
| by-product | windmill | water power | non-renewable resource | fossil fuels |
| nuclear explosion | renewable resources | sunlight | hydroelectric power plant | pressure wave |

- _____ are replaced naturally and can be used again.
- A _____ does not renew itself at a sufficient rate.
- Alternative energy is energy that does not come from _____.
- A _____ is a device that converts energy from the wind into the electrical power.
- Solar power is produced by collecting _____ and converting it into electricity.
- Nuclear waste is a _____ of nuclear power generation and contains radioactive material.
- A nuclear blast is an explosion with intense light and heat and a damaging _____.
- The heart of a _____ reaches a temperature of several million degrees centigrade.
- _____ is power derived from the energy of falling water or fast running water and it is a source for generating electricity.
- The first commercial _____ was built at Niagara Falls in 1879.

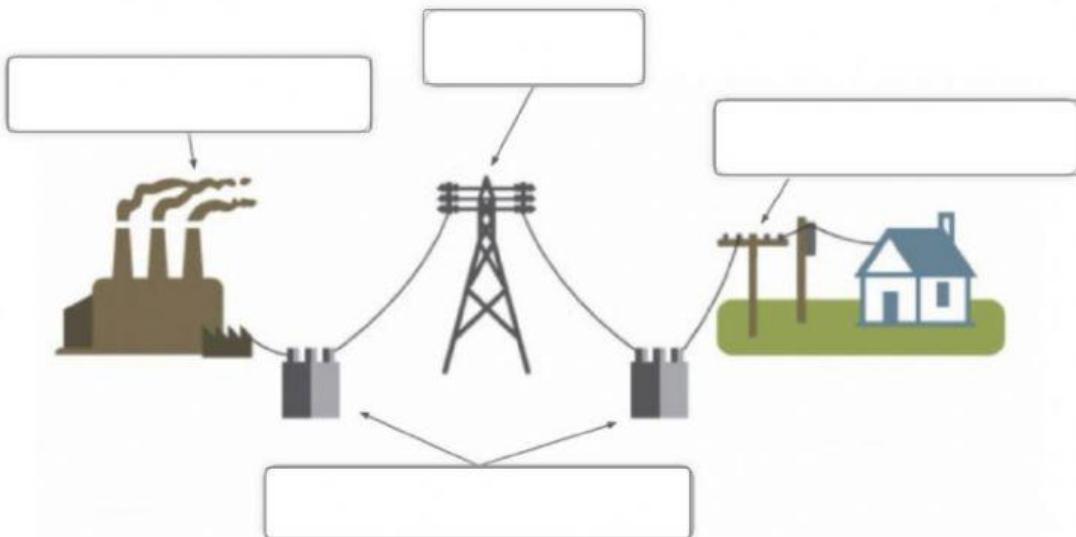
Label the diagram.

POWER POLE

PYLON

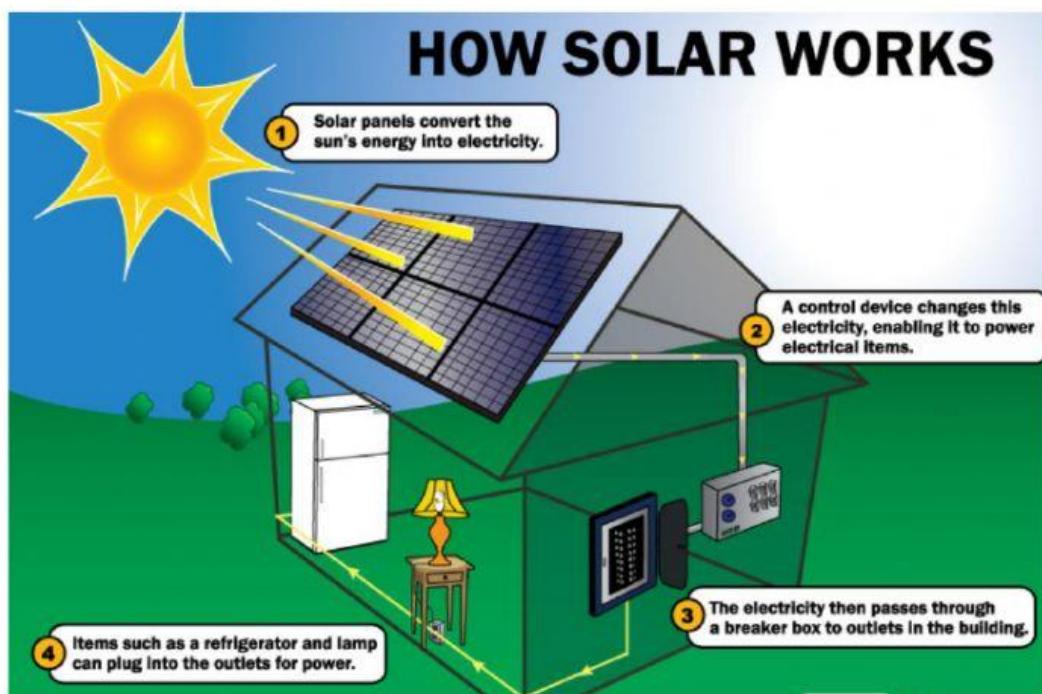
POWER STATION

TRANSFORMERS



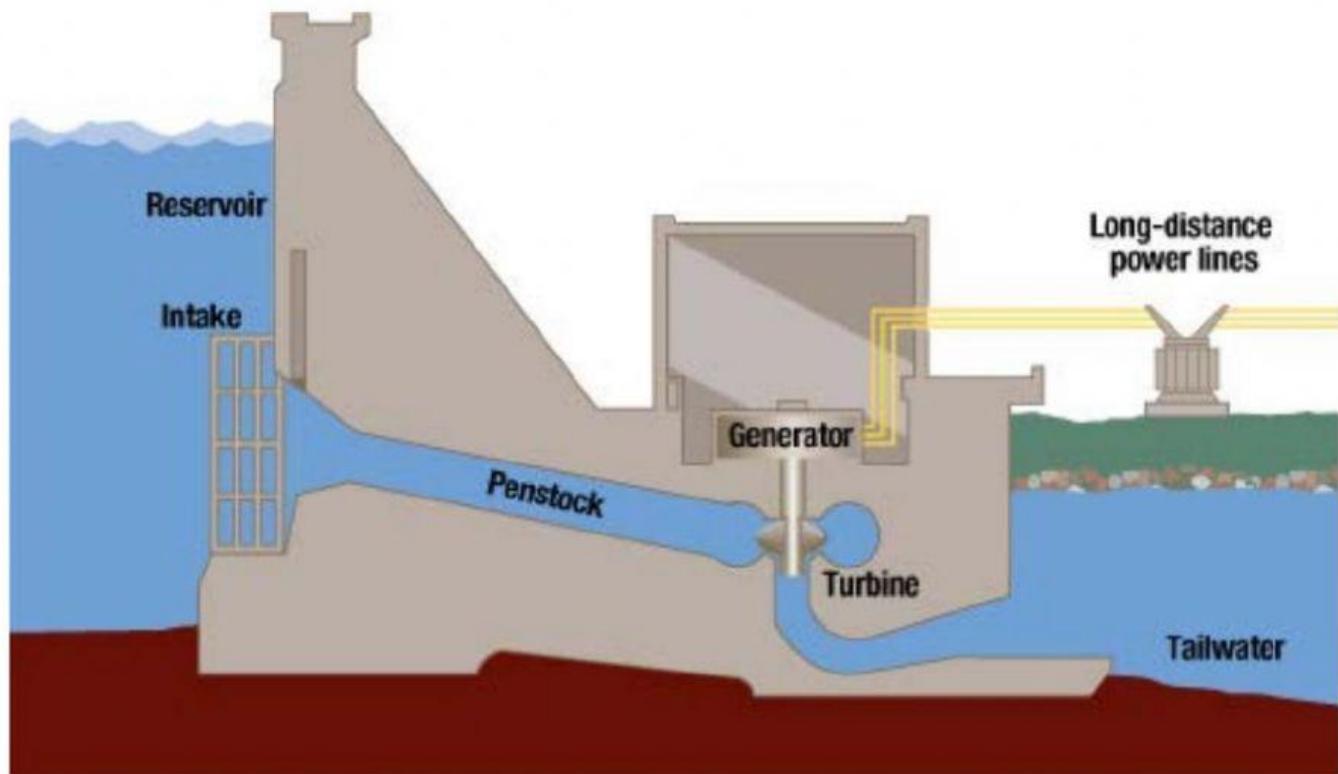
Study the following diagrams and in your own words explain how it works

SOLAR ENERGY



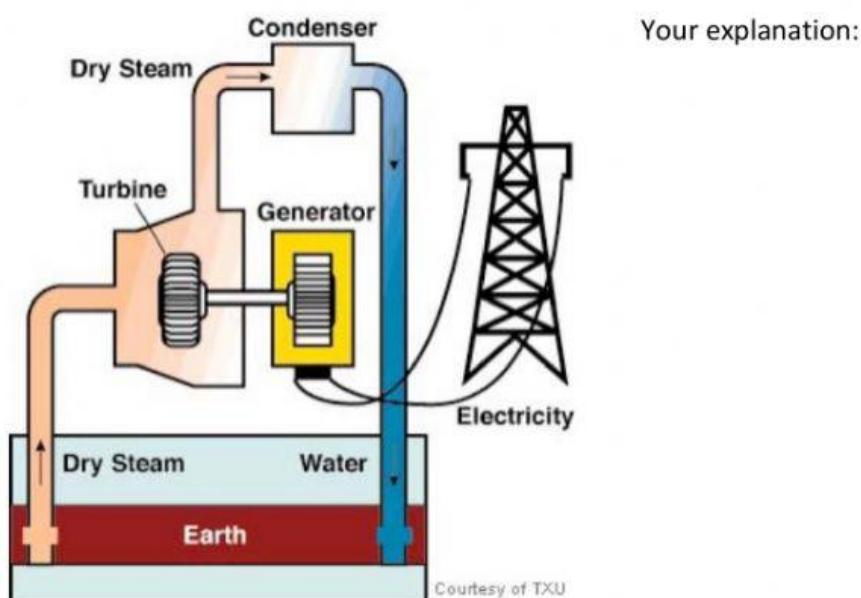
Your explanation:

HYDROELECTRIC ENERGY



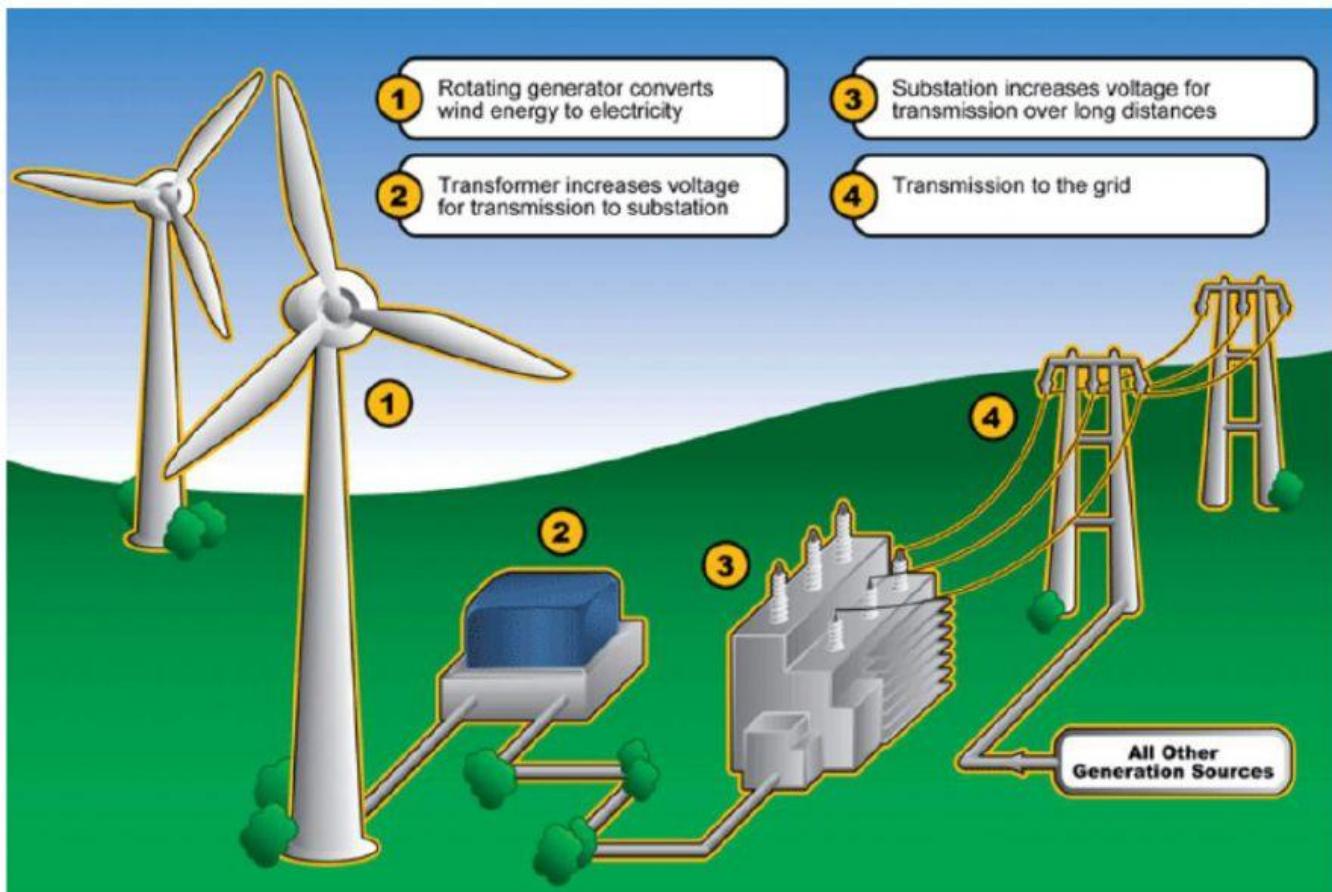
Your explanation:

GEOTHERMAL ENERGY



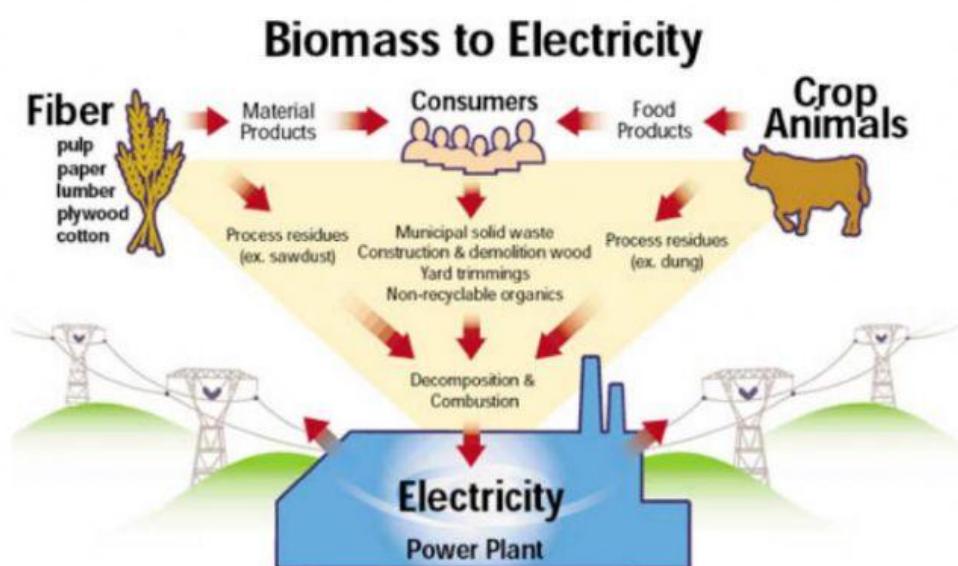
Your explanation:

WIND ENERGY



Your explanation:

BIOMASS



Your explanation:

Compare the energy sources

| | Advantages | Disadvantages |
|--------------------|------------|---------------|
| Coal energy | | |
| Natural gas energy | | |
| Solar energy | | |
| Hydropower energy | | |
| Wind energy | | |
| Nuclear energy | | |