

Sources of Energy

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Things you should know in this course:

- Types of energy (Renewable / Non-renewable)
- Vocabulary related to energy crisis
- Reasons of the energy crisis
- An essay about sources of energy, energy crisis and solutions

1. Types of energy

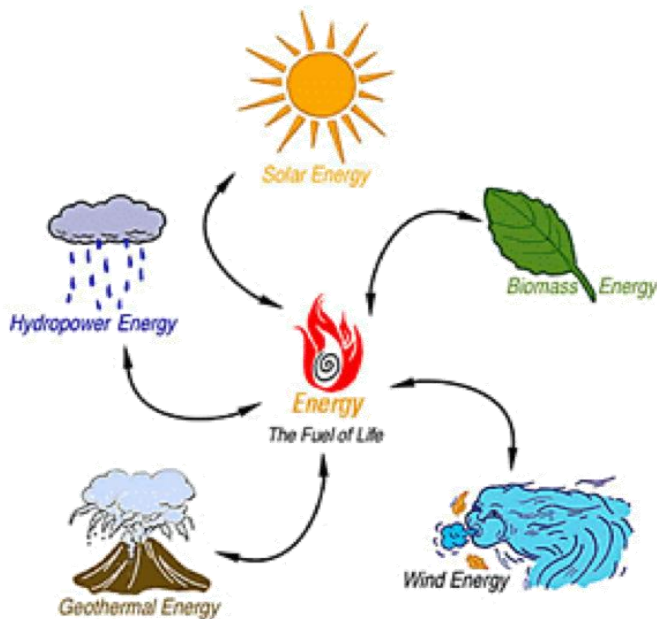
Renewable

Resources, which can be renewed or replaced along with their exploitation and are always available for use.

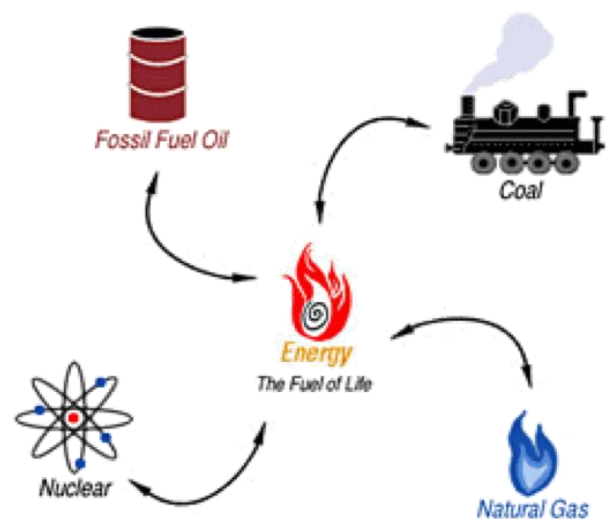
Non-renewable

Resources which are once used in unlimited way and will be exhausted forever.

Renewable Energy



Non-Renewable Energy



Important Notes

- ⇒ Hydropower = water power
- ⇒ Another Energy source is burning organic matters such as sugar, decaying animals and decaying animals to heat water and drive turbines

- ⇒ Fossil fuels are Petrol or Oil, gas and coal
- ⇒ Nuclear energy = atomic energy
- ⇒ In addition to these energy sources, there is the propane energy



Nowadays, there is an energy crisis because demand exceeds (or surpasses) supplies (or resources), that is why, there are alternative energy sources (an alternative energy is any energy source that is an alternative to fossil fuel). They are widely available and environment friendly. They cause little or almost no pollution.

2. Vocabulary related to energy crisis

Vocabulary of Increase & Improvement		Vocabulary of energy usage	
Verb	Noun	Verb	Noun
To increase	An increase	To employ	employment
To grow	growth	To consume	consumption
To leap	A leap	To compare	comparison
To develop	development	To combine	combination
To evolve	evolution	To emit	emission
To improve	improvement	To emerge	emergency
To prosper	Prosperity	-	Crisis (Sing) -> Crises (Plu)

Causes of the energy crisis

- Population growth
- Industrial development = economic growth
- The unconscious use of energy
- The rise in the standards of life (home appliances like refrigeration, cookers, heaters, air-conditioners, etc)
- The increase of the number of motor vehicles

3. An essay about sources of energy

The essay will generally cover one of these areas:

- Types of energy sources
- The reasons of energy crisis
- Alternative energy
- Solutions for energy crisis

• **Types of energy sources**

All the natural resources can be divided into two categories. First, renewable resources are the ones which can be renewed or replaced along with their exploitation and are always available for use such as soil energy, hydropower, wind, solar and Geothermal energy. However, non-renewable resources are used in an unlimited way and they will be exhausted forever like fossil fuels of oil, gas and coal and nuclear and propane energy.

• **Alternative energy**

Nowadays, there is an energy crisis because demand exceeds (or surpasses) supplies (or resources), that is why, there are alternative energy sources (an alternative energy is any energy source that is an alternative to fossil fuel). They are widely available and environment friendly. They cause little or almost no pollution.

• **The problem of energy crisis**

The world's energy reserves (= supplies / sources) are dwindling (= decreasing). There are lots of obstacles (hurdles) to be surpassed (=overcome) before developing countries start exporting solar energy (= power) to Europe. For instance, France intends to splash (=reduce) its reliance (= dependence) on nuclear energy.

• **The reasons of energy crisis**

Energy sources are undergoing a real threat of extinction (extinct (adj), to extinguish (v.)) due to different reasons. First, population is increasingly growing; therefore, consumption is getting higher and higher. Second, with the industrial revolution and the economic growth, the need for energy usage exceeds the available supply. Third, people are unconsciously and extravagantly using energy without any reflection upon risky results.

Finally, the rise in the standards of life such as home appliances results in a growing consumption for individuals and countries especially the western world. Most people are getting used to luxurious life. For instance, in one family, you might find more than two or three cars and other motor vehicles such as motorcycles.

- **Solutions for Global energy crisis**

Energy crisis is a real complex issue. As a matter of fact, there are various measures that can be taken to solve it. First, It is recommended to move towards renewable resources by reducing the world's dependence on non-renewable resources and improving overall conservation efforts. Second, governments ought to encourage people to buy energy efficient products like CFL's. Third, energy audit, which is a process that helps you to identify the areas where your home or office is losing energy and what steps you can take to improve energy efficiency, should be generalized in different areas.