



Energy resources

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Types of energy resources

1. Solar energy
2. Geothermal energy
3. Hydroelectric energy
4. Wind energy
5. Nuclear energy
6. Chemical energy



Solar energy

- The solar panels are used to make use of energy from the sun as they capture heat .
- This heat is used to heat water which can be later used for domestic purposes in the house .



Geothermal Energy

- the earth buries under its surface areas of hot rocks .
- If cold water is pumped through pipes , the heat of the rocks is released to the water which is pumped again to drive the generators or to warm houses.



Hydroelectric Energy

- Also known as energy from water
- Waterfalls, tidal energy and wave energy
- These movements of water can be used to turn turbines and drive generators .

Wind energy

- The energy of moving air can be used in :
 1. Sailing ships
 2. Operating large windmills
- The operating large windmills turn turbines and generates electricity





Nuclear Energy

- Nuclear fussion takes place in an nuclear reactor and large amount of heat energy is released which is also used to heat water , turn turbines and drive generators

Chemical Energy

- The chemical energy is stored in fossil fuels (coal , oil and natural gas) is converted to heat energy when these fuels are burnt.
- Chemical energy is also stored in the food we eat .





Renewable & Non-Renewable

- Renewable sources of energy are sources that will not run out and are continuously replaced such as solar energy , wind energy , waver energy , tidal energy , hydroelectric energy and geothermal energy .
- The trouble is that many of them are unreliable because hey depend on the weather.

Advantages

1. No air pollution
2. They will never run out
3. Don't damage the environment (except visually)
4. No fuel costs , although the initial costs are high

Disadvantages

1. Limited number of suitable sites
2. They are non-reliable (they don't always deliver when needed – if the weather isn't right for example).
3. Require large areas of land or water , so in case of wind power stations for example because large numbers of wind mills are needed, large space is needed which may lead to the damage of natural habitat and visual pollution.

A wooden-framed chalkboard is centered on a rustic wooden surface. To the left, a portion of a vintage orange rotary telephone is visible. To the right, a green leafy plant is partially seen. The chalkboard contains the text 'Thank You' in white, with a watermark 'GoogleSlidesThemes.com' overlaid across the middle.

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