

Energy Resources

Non-renewable

1. These will **run out** one day as we can't quickly make more.
2. They are **fossil fuels** (coal, oil and gas) or **nuclear fuel** (uranium and plutonium).
3. Fossil fuels are burned to provide energy to produce electricity.
4. Currently we depend on fossil fuels to meet energy demands. This is due to:
 - a large increase in population size (using more electricity).
 - more appliances which require electricity.

Renewable energy

13. **Geothermal** energy can be used to produce electricity.
14. **Geothermal** energy can be used to produce electricity.
15. **Solar** water heaters use thermal energy from the sun to heat water.
16. **Bio-fuels** are produced from crops like corn and wheat. They can be used to produce electricity.

Uses for Transport

17. **Non-renewables:** Petrol and diesel are made from **oil** and used to power vehicles such as cars.
18. **Coal** is used in steam trains to boil water to produce steam to power the train.
19. **Renewables:** Some vehicles run on **biofuels**.
20. Electric powered vehicles can be powered by renewables, such as **solar** cells.

Dependency on Fossil Fuels

9. Our electricity usage in the 21st century has decreased as appliances have become more efficient.
10. Oil is used to produce petrol and diesel as fuels for vehicles.
11. Gas is burned to cook with and to produce heat in our homes.
12. **Coal** can be burned in fireplaces.
13. **Coal** usually use electricity produced from a non-renewable source.
14. We are trying to reduce our dependency on fossil fuels.
15. By 2020 the UK aims to produce 15% of energy from renewable resources.

We people want more Renewable Energy

21. More people want to use energy produced by renewable sources because they know:
 22. - burning fossil fuels is damaging the environment
 23. - it is better to learn to get by without renewables before they run out
24. Governments have set targets for using renewables due to pressure from other countries and the public. This puts pressure on energy companies to make changes.
25. Electric and hybrid cars are becoming more popular.

Limits of Using Renewables

26. The **main** reasons why we are dependent on non-renewable energy resources.
 27. **Costs** a lot of money to build new power plants.
 28. People would have to pay for new power plants through energy bills or taxes from the government.
 29. **Difficulty placing new power plants** (they may spoil the landscape).
 30. Fossil fuels are **cheap**.
31. Many **renewable** energy sources are **not reliable**.
32. Improving **renewable** energy takes a lot of expensive research and takes a long time.
33. **Personal transport can be expensive**. It is very costly to buy solar cells for your house or a hybrid car.