

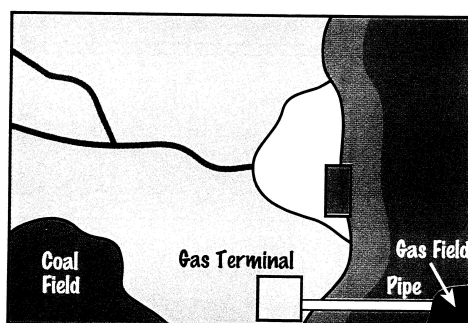
Non-renewable resources

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1. Despite scientific research into alternative sources of energy, most of the electricity that we use today comes from the four non-renewable resources.
 - (a) Give the names of these four sources.
 - (b) Which three are burned?
 - (c) Draw a simple block diagram of a traditional power station including the following: boiler, generator, fuel, national grid, turbine.
 - (d) Many coal fired power stations have large piles of coal outside. Why is this not necessary for nuclear power stations?
2. Copy out and complete the following table.

Problem	Coal	Oil	Gas	Nuclear
Release of CO ₂ contributing to the greenhouse effect				
Acid rain production				
Devastation of landscape				
Environmental problems due to spillage at sea				
Expensive plant and clean-up after use				
Production of dangerous, long-lasting waste				
Danger of major catastrophe				

3. A power station is to be built to supply the town of Leighshack. The choice is between a coal power station, and gas power station or a nuclear power station.



- (a) Give one advantage of each power station
- (b) Give two disadvantages of each power station
- (c) Which option would you support. Justify your choice.
- (d) The satellite in the diagram below is orbiting the Earth.