

Lesson 3 - ASSIGNMENT

1. List all of the different methods of generating electricity that you are aware of.
2. Write 1 – 2 paragraphs on solar panel alignment including diagrams to illustrate the principals involved.
3. Compare the advantages and disadvantages of using the following different types of electricity generation for powering a typical home in your locality.
 - Photovoltaic Panels
 - Wind Powered Turbine
 - Petrol Powered Generator
 - Batteries
4. Display your results in a table. Consider any significant factors you can think of, including cost, durability/lifespan, quantity of energy, reliability, pollutants, etc.
5. Describe two different electric generation systems, using either photographs or sketches to label to show how the system operates. You might also write between half and one page to explain the operation of each system.
6. Draw a floor plan and describe the current electricity use of a home which you are familiar with (but which uses only mains power supply). This might be the home of a friend, relative, or even your own home. Recommend ways in which this home might reduce reliability on mains supply (either in part or full) by introducing its own electricity generation system.