

# Quarter Two Energy Project

## *Part I: Research Paper*

The research paper will be the backbone of this entire project. You will need to write at least 1-2 pages (double spaced, 12 point Times New Roman font) on each of the sections below. You will need to cite your sources in APA format. You should include a bibliography and parenthetical citations. Use [easybib.com](http://easybib.com) to help you. While one person will be the leader for this section, all members will be required to contribute to the paper. You should divide the topics among members of your group. Some sections will require more work than others.

1. History of the energy source
  - a. Who founded this type of energy? (*development pioneers?*)
  - b. When was it invented, developed, or used
  - c. Any other historical information about the energy source
2. Specific use of your energy source?
  - a. What do we use it for?
  - b. How do we use it?
  - c. How is it being used?
  - d. Where is this type useful (applications?); not useful (or not efficient)?
  - e. Name all that apply and provide a description of each one?
  - f. Is it used to produce electricity?
  - g. Is it used to produce heat?
  - h. Is it used to move objects (machine)
  - i. Other energy types?
3. How has the function of the energy source changed throughout history?
  - a. Different today than before
4. How much does your energy source cost?
  - a. How much do consumers pay to use this energy?
  - b. Is it cost effective to make?
  - c. What is the estimated cost of maintenance?
  - d. Are cost per joule (J) or kilojoule (kJ) of energy? BTUs?
5. How much more effective (efficient) is this energy source than other in doing a task?
  - a. Is it better at providing heat, energy, or electricity than other methods?
  - b. How much better or worse (looking for percentage or factual referenced based statement or calculations)
6. Where is your energy source most often used (where would we see it)
  - a. Describe these location (sites) in order for audience to visualize it
7. What are some positive effects of your energy source on the Environment?
8. What are some negative effects of your energy source on the Environment?
9. Are there any plans to use this energy source to produce new types of energy in the future?
  - a. What is the latest research taking place with this energy source?
  - b. Will it have more than one function or use in the future?
10. Why should humans continue using this energy source in the future?
  - a. Try to sell the audience in why it is good to use. If you excite the engineers they are more likely to build you a better product

## *Part II: Power Point Presentation*

The Power Point presentation will be based on what you learned in your research paper. Your presentation should contain one to two slides summarizing each of the major parts of your paper.