# Assignment Summary

In this assignment, you will research the relationship between different types of energy when energy is being transformed. You will present your findings in the form of bar graphs or pie charts that show the forms of energy at different times in the process. Useful references for gathering this information will be listed at the end of this document. You will then create a poster to display your findings. Your poster should include a title, a brief description of the energy transformation you are showing, your graphs, and works cited.

# Assignment Instructions

**Step 1: Gather materials and necessary information.**

1. You will choose an energy transformation to show. Some of the ones you have learned about include those that occur in a burning bonfire and a wind turbine.
* Do research to find out about an energy transformation that affects your daily life.
* Find out what the starting types of energy are and what the ending types of energy are.
* Decide how many steps in the process your poster will show.
* Create bar graphs or pie charts to show the relationship between the different types of energy at different steps in the transformation process.
1. Be sure to keep a list of your references so you can cite them later.

**Step 2: Decide on a title.**

1. Begin by deciding on a title for your poster and writing it neatly at the.
2. The title should identify the energy transformation you are showing.

**Step 3: Create your graphs.**

1. Decide how many graphs you will need to show the energy transformation.
2. You should have at least 3 graphs, so that the steps of the transformation will be clear.
3. Each graph should be clearly labeled.
4. Careful use of color on your graphs will make them easy to read and understand.

**Step 4: Decide on the descriptive words to include on your poster.**

1. People looking at your poster may need more information than the just the title and the graphs. Decide on how you want to present the information your viewers need.
2. Keep the information as short as possible while still including what you need. Remember that when people look at a poster, they focus on the graphics.

**Step 5: Decide on the best layout for your poster.**

1. You want to incorporate your text and visuals in a way that is attractive and attention-getting.
2. Keep your graphics as large as possible.

**Step 6: Put your poster together.**

 **Step 7: Cite your sources.**

1. In the lower right-hand corner of your poster, create a section titled **Works Cited**.
2. List the resources you used to create your poster. A simple list of website titles and addresses (URLs) is acceptable. If you used print sources, list the title, author, publisher, city, and date. The print for this section can be small; it needs to be readable close-up.

**Step 8: Identify yourself as the creator of the poster.**

1. Place your name in the lower right-hand corner of the poster.
2. On the back, write your teacher’s name and the due date for the poster.

**Step 9: Evaluate your poster using this checklist.**

* Does your poster have a title that grabs interest and tells what your subject is?
* Are the graphs clearly labeled?
* Are the graphs bright and colorful?
* Is the text on the poster clearly written so that the viewer understands what you are trying to show? Is it free from misspellings?
* Is your poster laid out in a way that invites people to look at it?
* Have you included your name and works cited?
* Is your entire poster neat and attractive?

**Step 10: Revise and submit your poster.**

1. If you were unable to check off all the requirements on the checklist, revise your poster before submitting.
2. Ask your teacher for further instructions about presenting your poster to an audience of your peers.

# Resources

<http://nces.ed.gov/nceskids/graphing/classic/bar.asp>

<http://nces.ed.gov/nceskids/graphing/Classic/pie.asp>

<http://www.eia.gov/kids/>

<http://www.energyeducation.tx.gov/energy/section_1/topics/energy_transformations/index.html>