

Alternative Energy Presentation—group presentation

Due on Tuesday, Dec. 8

In the groups assigned yesterday, you will be researching information regarding your assigned form of alternative electrical energy generation: Wind power, solar power, hydroelectric power, geothermal power, wave and tidal power, nuclear power.

Each person in your group must contribute to the research and the development of your presentation somehow. It is your responsibility as a group to make sure that each person contributes equally to your presentation preparation.

Requirements:

1. Presentation:

a. Power Point Presentation:

Your power point presentation must include information so we can learn about the following:

- i. How, exactly, is electricity generated using this alternative method?
- ii. What are the benefits of using this form of energy?
- iii. Where in the world and in our country is this form of energy currently used (significantly), and where COULD it be used efficiently? Why would these locations be productive/efficient locations for this form of energy?
- iv. Talk about the general efficiency of this method (i.e how much electrical energy is created from the energy source (percentage of useful energy?)
- v. Is this method currently cost efficient? If not, is there anything being done/researched to hopefully get it more efficient?
- vi. What are some disadvantages to this form of energy?
- vii. Any other interesting facts/pieces of information that will help us better understand the process of energy production and the source itself.

In general, your presentation must, at minimum, provide information necessary to answer the syllabus statements in Topic 8 related to your alternative energy source. If you are doing research on Geothermal, use these 7 points as a guideline, and you may have some extra things for bullet #vii, as you do not have syllabus statements to also guide you.

- b. You must include labeled diagrams and/or photos within your presentation
- c. You should find some kind of animation, or develop/find a demonstration related to the energy production method you have been assigned.
- d. A short video clip online (i.e. on “How Things Work” they have a science video section...) illustrating some key point on the production of energy.
- e. Recommended: (not required...but a good addition)
 - i. Practice questions or some kind of conceptual review scattered within your presentation
 - ii. If you want to use the clickers, you can—just create a question in a power point slide, make note of what kind of question it is (multiple choice, text

short answer, T/F, Y/N, calculation, ranking, opinion scale, etc.) and then let me know before you present so I can have them ready to go. ☺

- f. E-mail me a copy of your presentation so that I can save it as a pdf and post in on the website.

Plan to present information to your classmates for about 15 minutes!

2. Handout:

- a. You should provide some kind of notes handout to accompany your presentation. It should NOT just be an outline of your presentation. A note template with blanks that need to be filled in, a diagram that your classmates can label, a flow chart, etc. Something that you would find useful if you were in the class listening to your presentation and would help you remember the information.
- b. You need to e-mail me a copy of your handout at least 24 hours in advance of your presentation so that I have time to make copies before class. I will NOT be leaving class to make copies. If you do not have copies of your handout at the beginning of your presentation, you will lose points.

Grading:

This project will be worth 60 assignment points. I will provide a more specific break down closer to the time you turn it in (as I haven't quite decided yet ☺). Just know that, like usual, you will receive credit for the quality of your presentation, including the accuracy of your information and appropriateness of diagrams and review questions. You will also be getting credit for clarity, for creativeness, and for NOT READING DIRECTLY OFF THE POWER POINT SLIDES! ☺

35 points will be for the presentation in class

15 points will be for the handout that you give your classmates

10 points will be for your participation (partly awarded through a peer review...both from your group members for your participation during preparation, and from your classmates (related to the quality/usefulness/clarity of your presentation)

Have fun with this! There is a lot of useful information out there. Please provide a list of references at the end of your power point presentation, and remember to cite in your presentation the source of any specific information and any illustrations or photos that you use.