ES 11 **Resource Assignment /30**

Does it matter where we get our energy from?

We have had a brief introduction to resources, how we extract them and why. A large portion of mining for resources is focused on energy sources of energy. We have not come up with a perfect solution to our energy demands. There are advantages and disadvantages to both renewable and non-renewable resources for energy. Your task is to explore a few of these further and determine which you think is a better solution. You will select ONE Renewable and ONE Non-renewable resource to research and compare. For each resource you will address the following topics:

* Brief description of each resource
* How each resource is extracted or harnessed. (by what process or machinery?)
* Where the resource is or can be extracted or harnessed.
* Why and how the resource is used. Is the demand increasing or decreasing?
* Advantages and disadvantages. (expense, pollution, environmental and health impacts)
* Which resource has the greater environmental impact? What is being done to minimize the environmental impact?
* Is reclamation necessary, if so, how is it done? How much has been reclaimed so far?
* Inform your reader ways an individual can conserve energy to reduce our burden.

You will also include:

* Self Reflection – what did you learn from your research
* Diagrams or other visual aids.
* Cite minimum of 6 sources (text, magazine article, online)
* Your planning sheet

Non-renewable resources to choose from: Coal, Oil, Natural Gas, Uranium, Other

Renewable Resources: Hydroelectric, Solar, Wind, Geothermal, Other

Rubric: How you will be marked.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 8 | 6 | 4 | 2 |
| Content | Each topic thoroughly described and discussed | Topics discussed | Some topics discussed | Topics not well identified. |
|  | 4 | 3 | 2 | 1 |
| Preparation | Excellent use of library time.  Presenter is well prepared |  |  |  |
|  | 8 | 6 | 4 | 2 |
| Visual Presentation | Presentation is well organized.  Easily Read.  Concise bullets  No extraneous information.  Images or graphics are easy to see and understand; Clearly support topic support.  No grammar or spelling mistakes. |  |  |  |
|  | 4 | 3 | 2 | 1 |
| Oral presentation | Present spoke clearly, understood what was on the slide, Does not need to read directly from slide |  |  |  |
| Other:  6 citations, Planning sheet,  Self Reflection  Effort |  |  |  |  |

Planning Sheet – hand this in with final project Name:

|  |
| --- |
| Non-Renewable Resource: |
| How and Where is this resource Extracted |
| Uses |
| Advantages |
| Disadvantages |
| Environmental impact/Reclamation |
| Conservation |
| Renewable Resource: |
| How and Where is this resource Extracted |
| Uses |
| Advantages |
| Disadvantages |
| Environmental impact/Reclamation |
| Conservation |