# Energy Resources Presentation Project

**Goal**: Students will be able to differentiate between renewable and non-renewable resources, identify examples of each, and cite advantages and disadvantages of these common resources in our society.

**Procedures**:
1. Students will be working in nine groups of 2 or 3.
2. Each group will become "experts" on ONE of the following topics:

- Solar energy
- Wind energy
- Geothermal energy

- Hydroelectric energy
- Biomass energy
- Nuclear energy (fission)

- Coal
- Petroleum/Oil
- Natural Gas

MY ASSIGNED TOPIC: _____

3. Each group will create a GOOGLE SLIDES PRESENTATION to use to <u>teach</u> the class about their energy resource. Presentation must be shared with your group members AND your teacher!

4. Slides must be complete and ready to present by _____

5. Students MUST include the following information within their presentation. (Include **<u>ONE SLIDE</u>** for each). Use the attached rubric for guidance.
    1. Title slide with your names and the name of your assigned energy resource
    2. Description of your energy resource and whether it is renewable or non-renewable
    3. How is the energy resource produced / how do we obtain it?
    4. Explain the uses of this energy resource (heat, electricity, fuel, etc. – BE VERY SPECIFIC)
    5. Advantages of using this energy resource (environmental, economic, societal, aesthetic, etc.)
    6. Disadvantages of using this energy resource (environmental, economic, societal, aesthetic, etc.)
    7. 3 questions to "quiz" your peers on the topic. The class should have learned the answers to these questions from your presentation. Answers should be revealed (use animations). Use a variety of question types (short answer, multiple choice, interpreting diagrams, true/false etc.)
    8. List the links of your sources (minimum of 2, make sure they are accurate and reliable sources)

6. This is an IN-CLASS project and most of the work should be completed in class during the periods provided. Use class time productively. Complete any unfinished slides at home by the due date.

7. Formatting:
    - Be clear & concise (organize information with sub-headings and bullet points; **<u>NO complete sentences and NO paragraphs!!!</u>**)
    - Use appropriate fonts (at least 20-24 font size), must be visible from back of the room.
    - Appropriate <u>visuals must be on every slide</u>, sized so labels/captions are visible. Include animations, gifs, pictures, photos, graphs, charts, up to one short video clip (2 minutes or less) if appropriate.
    - Fill the space on your slides, enlarge visuals, use textboxes to organize and layout facts

8. Presentation must be given <u>equally by all members</u> of the group, do not read off the slides

# ENERGY RESOURCES PROJECT RUBRIC

Grades for this project will be based on the following guidelines:

**Slide Content:**

Slide 1:  Names: _____

       Topic: _____         _____ (1 point)

Slide 2:  Description of energy resource and renewable or non-renewable     _____ (2 points)

Slide 3: How is the energy resource produced / how do we obtain it?     _____ (1 point)

Slide 4: Uses for energy resources (very specific)     _____ (2 point)

Slide 5: Advantages (at least 3)     _____ (2 points)

Slide 6: Disadvantages (at least 3)     _____ (2 points)

Slide 7: Three accurate, well made "quiz" questions     _____ (3 points)

Slide 8: List of source links (minimum 2)     _____ (1 point)

**Slide Appearance:**

- Information is clear, concise, & well organized     _____ (1 point)
- Appropriate, visible fonts used     _____ (1 point)
- Appropriate graphics on every slide     _____ (2 points)
- Layout is well organized / space usage is maximized     _____ (1 point)

**Presentation:**

ALL group members demonstrate a clear understanding of the information     _____ (1 point)

*Teacher Comments:*

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**TOTAL POINTS:**

**_____ / 20**