

Minequest Task List: Energy Puzzle

Big Question: What role does Wyoming play in contributing to the nation's energy needs?

Task #1: Unless your teacher has assigned them for you, as a team select:

- 1) a team leader. The leader will direct and organize the research, including leading the team in establishing a timeline for completing work by the deadline assigned by your teacher.
- 2) a presentation designer. The designer will direct and organize the presentation.

Task #2: Look ahead to the Processing page of this Minequest using the link at the bottom of this page to preview the requirements for the presentation your team will prepare to share the information your research reveals. Then, brainstorm ideas for your presentation. Discuss the options for sharing your information within the limits or requirements outlined by your teacher. (For example, your teacher might require that your presentation be in the form of a Powerpoint presentation. Or, you may be required to prepare a video or a brochure.) Your team's presentation designer should take notes from this discussion to help prepare and plan your "show."

Task #3: Agree on any formats that you want to use as a team to gather information from the websites you explore individually.

Task #4: Find the energy resource your team has been assigned in the table below. Divide the web links among teammates, excepting the presentation designer, under the direction of the team leader. While teammates explore and record information from assigned websites, the presentation designer begins preparing materials and plans for the presentation. The designer should return to preview the requirements outlined on the Processing page again to keep the team on track for gathering the necessary information. Each teammate should submit information as available in the agreed on team format to the presentation designer as it is available. During research, ongoing communication with the designer will mean work on the presentation can continue in a timely and efficient manner.

Task #5: Meet as a team to share the information you've discovered so far. Hear a report from the presentation designer on the progress to date. Determine if your team needs to return to any sites for further information to complete or improve the presentation. Split the remaining research to share the work and provide assistance necessary to the presentation designer to complete the work on time.

Task #6: At the option of your teacher, you may be directed to find two additional websites that provide information to address the Big Question.

Task #7: As individuals, take notes on the presentations other teams in your class make about the other energy sources they have been researching.

Task #8: As a team, agree on four significant influences that a reduction in Wyoming energy development would have on citizens in other parts of the nation. You will use the Matrix to determine which of your four outcomes might turn out to be the most significant. In order to do so, your team must also identify from three to five criteria that you will use to judge your outcomes. For example, you might decide to include as one criterion, the number of people likely to be affected by the reduction. Enter your predicted outcomes and your criteria on the Matrix. Using the directions on the Problem Solving Matrix, score each of your predictions according to the criteria you have entered and tally the scores.

Task #10: Visit the Minequest Lobby and share your insights about discoveries you made in this learning journey. What conclusions would you draw about the role Wyoming plays in meeting the nation's energy needs?