

Topic: Alternative Energy Sources

Content Areas: Living Environment/Environmental Science

Grade Level: 9-11

Duration:

GIS Tool: Google Earth/ArcGIS

Objectives: SWBAT identify the location of alternative/renewable energy sources in the U.S.

Instructional Sequence:

This activity will be used during the Human Impact Unit of the Living Environment curriculum OR during the Energy Unit in the EVS curriculum.

- Students will receive an introduction to the different sources of energy used throughout the world.
- Students will work in pairs to research ONE specific alternative energy source and will need to identify the following:
 - How does their specific alternative energy source work to generate the electricity.
 - What are some of the benefits and drawbacks of this energy source?
 - Where in the United States is this energy source utilized the most and why?
- Each student in the pair will be responsible for locating FIVE places in the United States where their alternative energy source is used. They will identify the coordinates of each location, give a brief description of the area and find a picture on google images to represent the energy source.
- Students will work together to create a Story Map using ArcGIS online.

Assessment:

- Students will present their Story Maps to the class and will be graded using a project rubric.
- Students will be given a series of multiple choice and short answer questions from LE Regents exams aligned to the topic.

Other Resources: (Such as PowerPoint, Video, Supplemental Readings, etc.)**Supporting References:**