



ACTIVITY

Generation Investigation

Your task is to identify which energy sources JEA uses to generate the electricity it provides to Jacksonville and surrounding communities. Once you have identified the different energy sources, select one and describe in detail the transformation of energy that occurs when it is used to produce electricity.



Part 1: Research JEA’s Energy Sources

Visit these web pages to find out which energy sources JEA utilizes to generate electricity:

- https://www.jea.com/about/electric_generation/generation_strategy/
- https://www.jea.com/about/electric_systems/generation_strategy/alternative_energy/

List JEA’s energy sources here:

Part 2: Select an Energy Source

From your list above, select one energy source that interests you the most. Circle or highlight your choice.

Part 3: Research and Describe the Energy Transformation

- Step 1: Conduct online research to learn how your chosen energy source is used to generate electricity.
- Step 2: Identify the initial form of energy present in the source (e.g., chemical energy, nuclear energy, kinetic energy from wind or water, etc.): _____
- Step 3: On a separate sheet of paper, describe how this initial form of energy is converted or transformed into electricity during the generation process. You can use diagrams or illustrations to support your explanation.