



## NEVADA CLIMATE CHANGE PORTAL

### Energy Source Game

**Grade Level:** 5th

**Objective:** The purpose of this game is to educate students on different types of energy sources.

**Materials and Equipment:**

Index cards

Pen

Two containers

**Keywords and Concepts:**

- Renewable Energy
- Non-Renewable Energy
- Fossil Fuels
- Electricity

**Research Questions:**

Why did the original line get shorter?

What did they learn about renewable and non-renewable sources of energy?

**Procedure:**

Using index cards, create the following energy source cards:

- clearly write coal on 2 cards
- natural gas on 21 cards
- hydro on cards
- nuclear on 11 cards
- wind on 1 card
- biomass on 3 cards
- geothermal on 1 card
- small hydro on 2 cards

The quantity of each energy type represents the energy source mix used by Pacific Gas and Electric for the Bay Area. At one end of a field place two containers at least four feet apart. Label the first container “Non-renewable” and the second container “Renewable.” Have students stand in a single file line on the opposite end of the field. Hold up a card with the name of an energy source on it. The first person in line is to take the card from your hand, run with it to the other end of the field, and place it in the appropriate container. Students with a non-renewable source make a new line next to the “Non-renewable” container. If the source is

renewable they run back to the original line. Continue the game until all students are in line by the “Non-renewable” container.

Sourced from Bay Area Quality Management District