Forms of energy. 6th Grade Science. Samantha Suter

P: Which energy source produces most of the electricity we use?

O: Calculate the amount of electricity produced by various fuel sources.

Compare and contrast various energy sources.

C: Photos of Coal fired power plant, Wind Turbines and Solar panels. Have students observe and compare and contrast what they see in each photo.

A: Students will research how much electricity is produced by 1 ton of coal at the Jim Bridger Power plant in WY.

 Students will research how much electricity is produces by commercial solar panels and windmills on a typical day in WY.

 Students will calculate how many windmills and solar panels are needed and how long they will need to run to equal the energy output of one ton of coal.

 As a class discuss pro’s and con’s of each energy source.

R: In small groups students will create an informative brochure on one of the types of energy to share with the class.

A: Students will act as the town council for a new town they will need to decide which energy source or combination of sources they want to use and explain and defend their choices at a town hall meeting.

P: Which energy source produces most of the electricity we use? Explain why?

S: SC8.1.12: Forms and Uses of Energy: Students investigate energy as a property of substances in a variety of forms with a range of uses.