

# Energy Resources Project

**The Big Idea:** Sources of energy differ in quantity, distribution, usefulness, and the time required for formation.

## **Objectives**

1. Describe how humans use natural resources
2. Compare renewable resources with nonrenewable resources
3. Explain ways to conserve natural resources
4. Describe how fossil fuels are found and obtained
5. Identify four problems with fossil fuels.
6. Describe and list advantages and disadvantages of alternative resources.

## **Research**

Within your group you will be analyzing alternative energy resources. Your group will be responsible for researching and presenting on one of the following topics:

- Light Emitting Diodes
- Nuclear Power
- Chemical Energy
- Solar Energy
- Wind Power
- Hydroelectric Energy
- Power From Plants
- Geothermal Energy

## **Scenario**

The world's fossil fuels are being rapidly depleted. The cost to heat and cool homes has sky rocketed and people can no longer afford to fuel their cars. Many schools have shut down and consolidated to save money. Businesses are suffering because no one has any money to buy goods. Goods are also limited because trucking companies have shut down. On top of all this, greenhouse gases and global warming are starting to really affect the Earth.

Your group is to find ways to solve the current energy crisis. You will need to research, design a presentation, and teach the class on how your alternative fuel can meet the energy demands of the country and prevent damage to the environment. How can your energy resource save the country and allow people to afford to heat their homes, drive their cars, run businesses, etc.

Your group will have two class periods to research your topic and c. When researching information start by considering the following questions:

1. Is your resource renewable or nonrenewable?
2. Where is your resource found? How popular is it?
3. What are some advantages of your resource?
4. What are some disadvantages of your resource?
5. What costs are involved with using your resource?
6. What is the science behind your energy resource?
7. How is the energy gathered, created, stored, etc?