



activity 3

Section 4: Gathering Information

Biomass Basics Web-quest

SUMMARY

Students access various Web sites and complete the Web-quest Explorations Guide to learn about biomass and bioenergy, including sources, uses, advantages and disadvantages, and the role of biomass energy in regional, national, and international energy policy. Students then create posters and present to the class.



Biomass resources can be used for energy production.

BACKGROUND

Biomass is biological material from plants or animals that is either living or has recently living. (Environmental Literacy Council, 2008c). Biomass, along with other renewable energy sources such as wind, solar, geothermal, hydrogen, and hydropower, can help to meet growing energy demands in the United States (U.S.) and globally. When biomass is converted into electricity, heat, power, or transportation fuels, it is called biomass energy, or bioenergy. Examples of bioenergy resources are food crops like sugarcane and corn, grassy and woody plants, agricultural and forestry residues, municipal and industrial solid wastes, and landfill gas (HARF, 2008). Biomass is a renewable energy resource because trees and plants can be grown, harvested, and

❓ did you know!

Biomass is the most widely used renewable energy source in the world.

re-grown in a short period of time. In addition, this process occasionally produces residue, manure, and gas.

People have been using biomass in the form of firewood for centuries to cook food, heat homes, and produce steam. Currently, many people in developing countries depend on burning biomass to provide heat for both cooking and heating. Biomass can potentially provide some U.S. communities with a local source of renewable energy. Current research and advances in technologies are making bioenergy cleaner and more efficient.

SUBJECTS

Science, Language Arts

KEY QUESTIONS

1. What is biomass?
2. What is bioenergy?
3. What are the benefits and barriers to biomass?

OBJECTIVES

- By the end of the activity, students will be able to do the following:
1. Explain some of the benefits and barriers related to the use of biomass energy (SC.905.6.8-12.4.12.11.11; SC.912.1.17.11.9).
 2. Describe processes and technologies used to convert biomass into bioenergy.
 3. Identify the role of biomass in the national and global energy supply (SC.912.1.17.11.9).
 4. Synthesize information gathered by creating a poster and presenting the poster to the class (QA.11.2.5.1.1).

MATERIALS

- Copies of Biomass Basics Explorations Supplement Guide for each student
- Computers with Internet access for each student or pair of students
- Headphones for each student for audio sections

TIME ESTIMATE

- 1 hour

Biomass Basics Webquest Exploration Guide Answers

Liyong Dong



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