



activity 3

SUBJECTS

Science, Language Arts

KEY QUESTIONS

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

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.912.E.6.6; SC.912.L.17.11; SC.912.L.17.15).
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.L.17.19).
4. Synthesize information gathered by creating a poster and presenting this poster to the class (LA.1112.5.2.3).

MATERIALS

- Copies of Biomass Basics Web-quest Exploration 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

Section 1: Gathering Information

Biomass Basics Web-quest

SUMMARY

Students access various Web sites and complete the *Web-quest Exploration 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 supply. 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 was recently living (Environmental Literacy Council, 2008b). 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 gases (NREL, 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 continually produces residues, wastes, and gases.

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 warmth. 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.

Web Quest Exploration Guide Biomass Energy Basics

Frank Spellman



Web Quest Exploration Guide Biomass Energy Basics:

Biomass Basics, 2010 This product provides an explanation of what biomass is and how it can be used **Forest-Based Biomass Energy** Frank Spellman, 2011-12-07 What is forest based biomass energy and why should we care Written by environmental expert Frank Spellman Forest Based Biomass Energy Concepts and Applications details how forest biomass can be converted to energy and energy products including direct combustion pellets gasification and co firing It explores the possibilities of forest based **The Science of Biomass Energy** Cecilia Pinto McCarthy, 2018 Biomass energy sources involve using organic matter typically from plants to generate electricity or create fuel The Science of Biomass Energy examines the field of biomass energy including the underlying scientific concepts its potential for replacing fossil fuels examples of how it is used today and prospective future developments

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