



activity 3

Section 4: Gathering Information

Biomass Basics Web-quest

SUMMARY

Students access various Web sites and complete the Webquest 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 Webquest Explorations 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

Answer Key Webquest Exploration Guide Biomass

Michael Rajnik



Answer Key Webquest Exploration Guide Biomass:

This book delves into Answer Key Webquest Exploration Guide Biomass. Answer Key Webquest Exploration Guide Biomass is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key Webquest Exploration Guide Biomass, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key Webquest Exploration Guide Biomass
 - Chapter 2: Essential Elements of Answer Key Webquest Exploration Guide Biomass
 - Chapter 3: Answer Key Webquest Exploration Guide Biomass in Everyday Life
 - Chapter 4: Answer Key Webquest Exploration Guide Biomass in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Answer Key Webquest Exploration Guide Biomass. The first chapter will explore what Answer Key Webquest Exploration Guide Biomass is, why Answer Key Webquest Exploration Guide Biomass is vital, and how to effectively learn about Answer Key Webquest Exploration Guide Biomass.
 3. In chapter 2, the author will delve into the foundational concepts of Answer Key Webquest Exploration Guide Biomass. The second chapter will elucidate the essential principles that must be understood to grasp Answer Key Webquest Exploration Guide Biomass in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answer Key Webquest Exploration Guide Biomass in daily life. The third chapter will showcase real-world examples of how Answer Key Webquest Exploration Guide Biomass can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answer Key Webquest Exploration Guide Biomass in specific contexts. This chapter will explore how Answer Key Webquest Exploration Guide Biomass is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answer Key Webquest Exploration Guide Biomass. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key Webquest Exploration Guide Biomass.

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