

Lesson Title : The Triple B Experience: Biomass Boilers For Beginners

Essential Question: How does biomass use energy efficiently?



Instructional Time needed for Lesson: 1 hr

Lesson Summary:

In this lesson students will learn all about biomass boilers. They will get to learn how each part of the boiler works individually, and how each part functions together. Students will also get to see a functioning biomass boiler, and identify the parts of the boiler.

Learning Outcomes:

Upon completion of class instruction students will be able to:

Objective 1: Define meanings of important vocabulary terms.

Objective 2: Explain the concept of how biomass energy is produced, starting with sunlight.

Objective 3: Compare different types of biomass.

Objective 4: Draw the different parts of a wood-burning biomass boiler, being certain to place them in the correct order in which they are used in the process.

Objective 5: Analyze and differentiate how all the different parts of our biomass boiler work.

Extension:

Compare how different types of biomass (wood, grass, etc.) create energy.

Discuss how biomass relates to the energy of the sun and photosynthesis

http://www.eia.gov/kids/energy.cfm?page=biomass_home-basics

Key Terms:

- Biomass
- Biomass Energy
- Biomass Boiler
- Renewable Energy
- Photosynthesis
- Energy Conversion
- Forms of Energy
- Sources of Energy
- Sustainability

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TOBY NEAL

Conservation Education
Coordinator

PO Box 315
134 Homestead Drive
Benzette, PA 15821
814-787-5173

TNealKECA@windstream.net
ExperienceElkCountry.com