Wood Pellets in West Virginia

Governor’s Energy Summit

Presented by
Donald Wagner
General Manager
Appalachian Wood Pellets Inc.
Kingwood, West Virginia
U.S. Energy Consumption

U.S. energy consumption by energy source, 2017

Total = 97.7 quadrillion British thermal units (Btu)

- petroleum 37%
- natural gas 29%
- coal 14%
- nuclear electric power 9%
- renewable energy 11%

Total = 11.0 quadrillion Btu

- geothermal 2%
- wind 21%
- biomass waste 1%
- bioturbis 21%
- wood 19%
- hydroelectric 25%

Note: Sum of components may not equal 100% because of independent rounding.
Source: U.S. Energy Information Administration, Monthly Energy Review, Table 1.3 and 10.1, April 2018, preliminary data

U.S. Energy Consumption

- Electric Power 40%
- Transportation 29%
- Thermal 31%

Source: U.S. Energy Information Administration
Clean Alternative to Fossil Fuels

**Wood Pellet Carbon Cycle**

1. Carbon dioxide (CO$_2$) exists in the atmosphere.
2. CO$_2$ is converted into trees and plants through photosynthesis.
3. Plant material is made into wood pellets.
4. Wood pellets are burned for heat, releasing CO$_2$ back into the atmosphere.
Residential Applications

Home Heating

Outdoor Cooking, Smoking, and Grilling
Did you know?

According to the US Energy Information Administration, one ton of pellets has the energy equivalency of 2.8 barrels of #2 fuel oil.
Environmental Facts
Commercial Applications
Agricultural Applications
Energy Production

Studstrup Power Station
Denmark

Now fueled entirely by wood pellets

Selby Power Station
North Yorkshire, UK

Three of Six units converted to wood pellets
U.S. Wood Pellet Exports

Pellets Exported to EU Utilities

Source: RISI
Opportunities for West Virginia

- Clean alternative to fossil fuels
- Waste reduction in wood related industries
  - Rural area development
  - Valuable commodity in-state and beyond
West Virginia has three major pellet manufacturers

- **Hamer Pellet Fuel Company**
  Elkins, West Virginia

- **Appalachian Wood Pellets, Inc.**
  Kingwood, West Virginia

- **Lignetics, Inc.**
  Linn, West Virginia

• Employing 65 people - Jobs for rural West Virginians
• Over 40 years of experience producing pellets for West Virginia, Northeastern, and Mid-Atlantic states, and Canada.
Invest in our Future

The wood pellet industry facilitates the creation and development of green jobs while helping our nation meet its energy objectives.