

# Distributed Bioenergy: Achieving Forestry and Community Goals

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Ed Gee, Woody Biomass Utilization Team  
Leader,  
USDA Forest Service, Washington, DC

# Interagency Woody Biomass Utilization Group

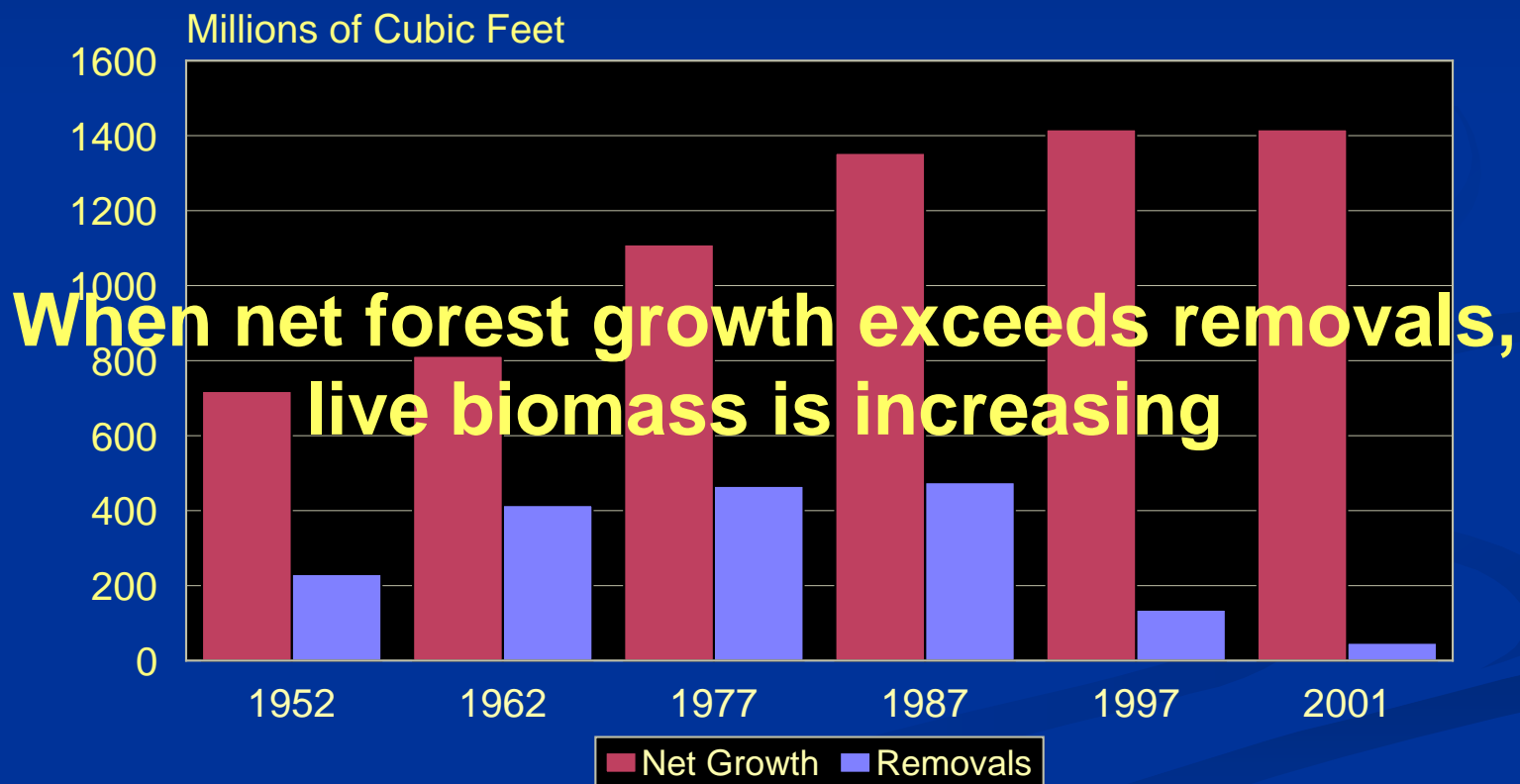
- Vision Statement:

The Federal Working Group promotes and supports the utilization of woody biomass products and residues from forest and woodland health, management and restoration treatments wherever environmentally, economically and legally appropriate.

# Forest growth greatly exceeds removals on NFS lands in the Interior West

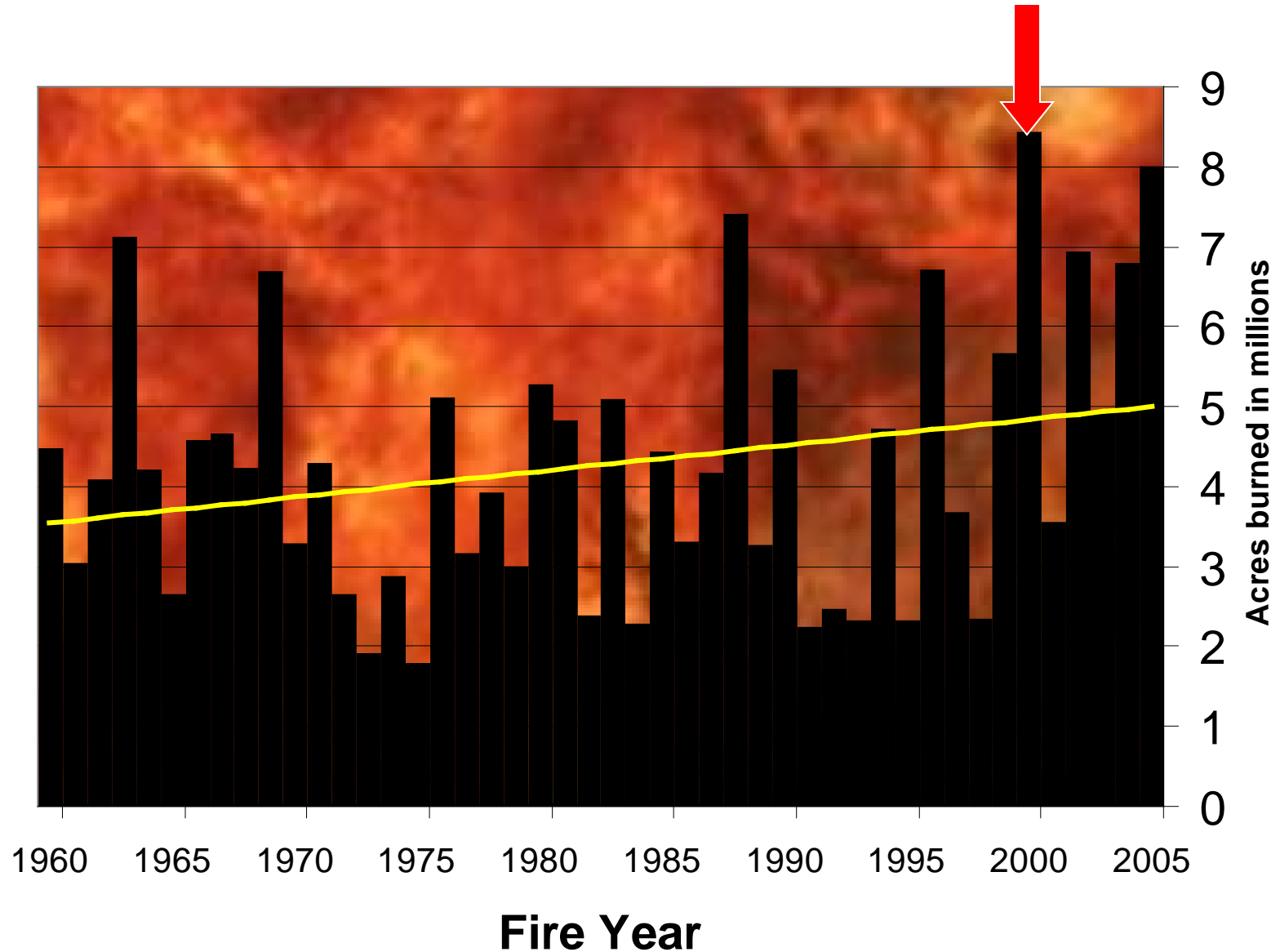
## Forest Growth and Removals

### National Forests of the Interior West - 1920-1997



Source: Forest Resources of the United States, 1997; GTR-NC-219. USDA-Forest Service, 2001.

# The Size and Intensity of Wildfire Has Increased In Recent Years



**When dense forests combine with extended drought, the ecological stress sets the stage for increased insect epidemics and wildfire**



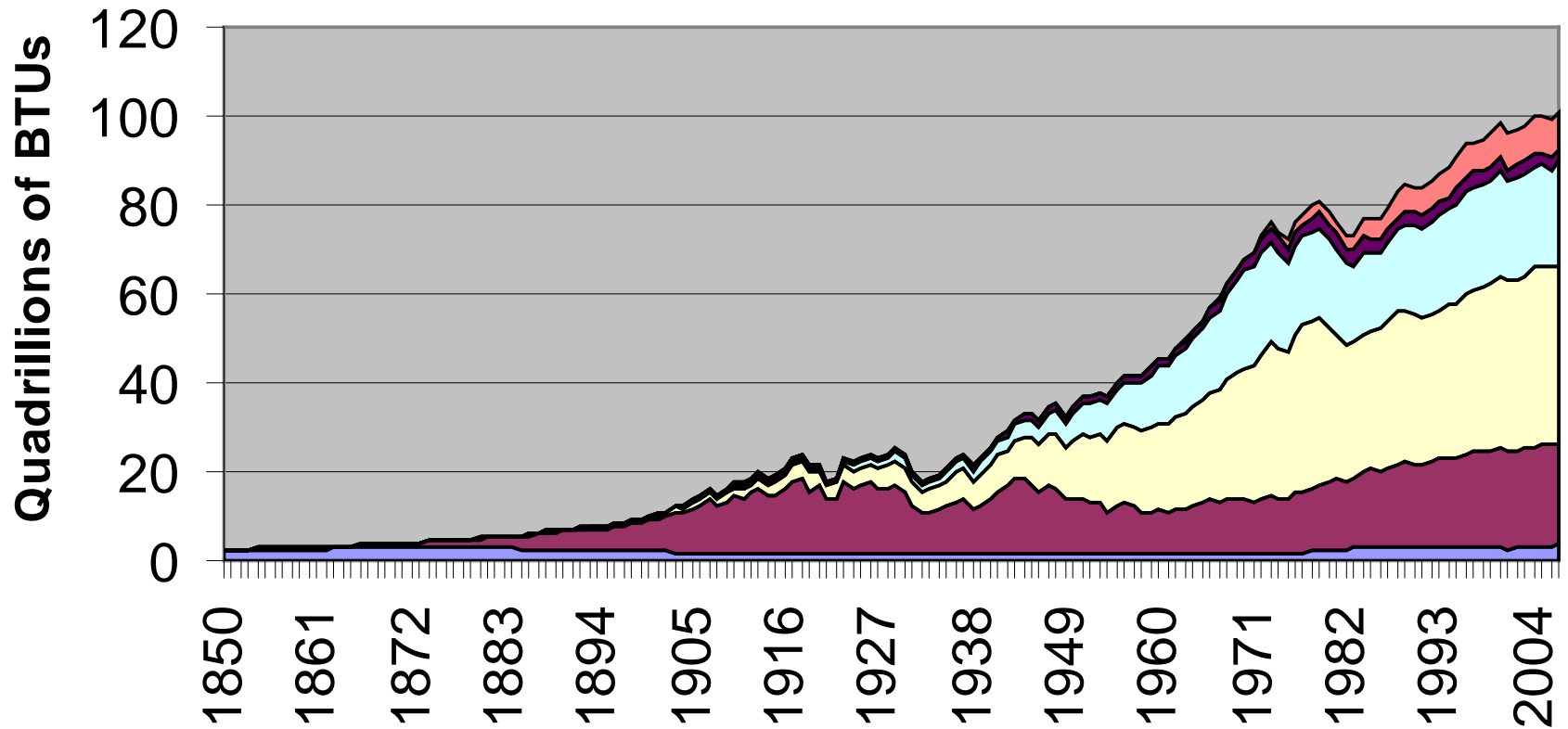
**Western Pine Bark Beetle Damage -- Prescott National Forest, Arizona**

**For most of human history, *renewables* were predominant energy sources.**

- Biomass, Water, Wind, Solar, Geothermal



# U.S. Energy Consumption, By Energy Source 1850-2007

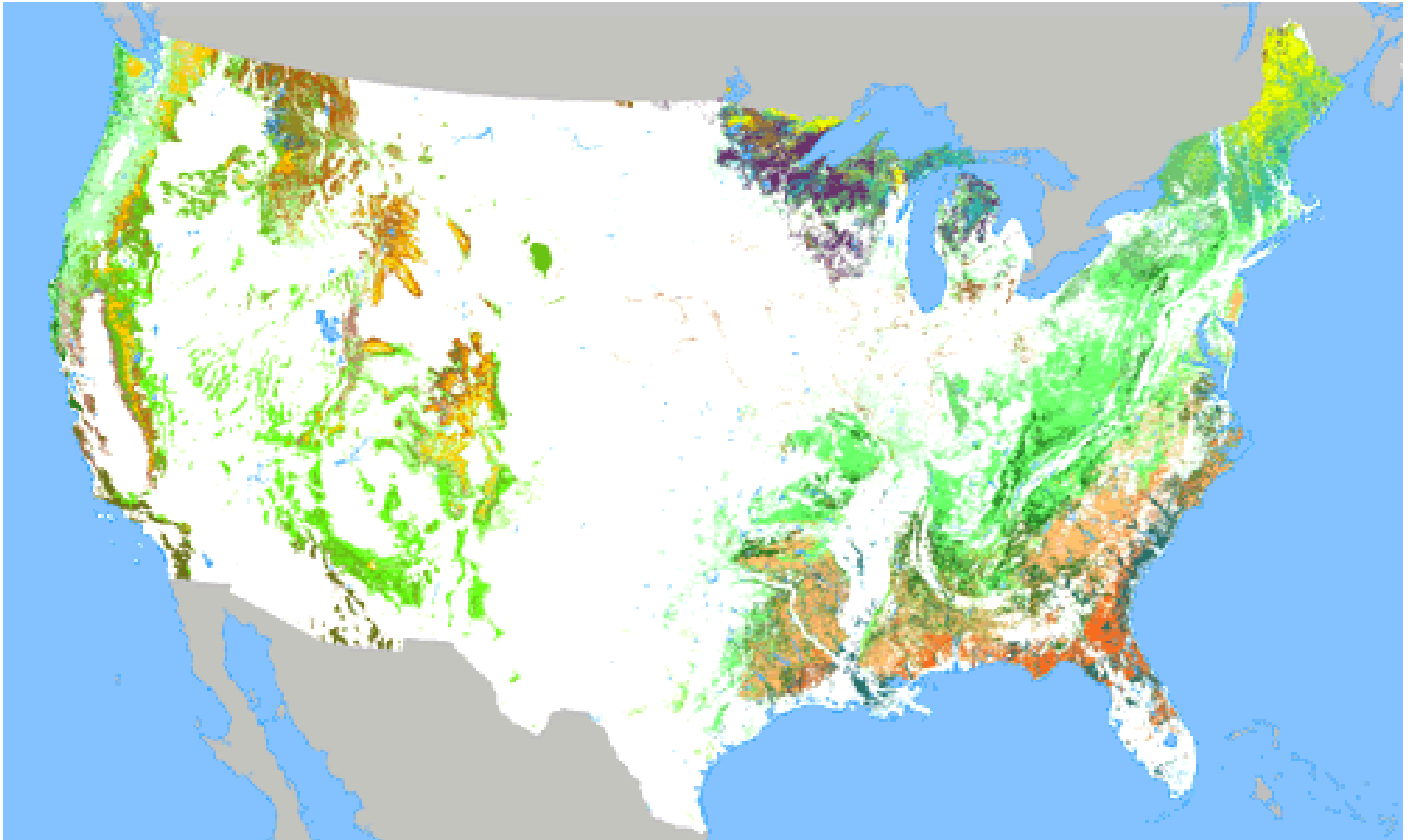


# Today, there is a resurgence of interest in renewables.

- Oil Prices
- National Security
- Climate Change
- Agriculture Policy



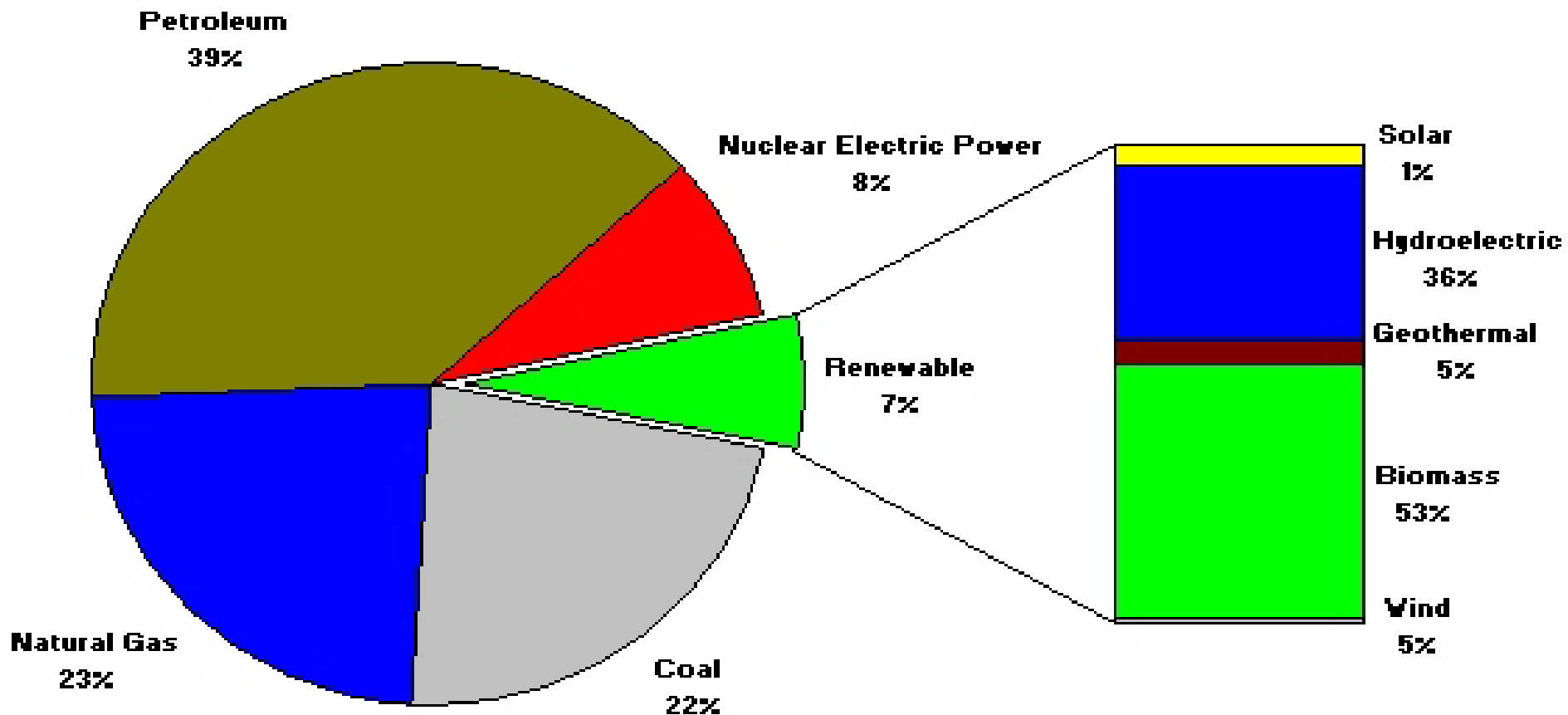
Wood is an obvious feedstock choice for biomass energy in some regions.



# The Role of Renewable Energy Consumption in the Nation's Energy Supply, 2008

Total = 101.545 Quadrillion Btu

Total = 6.813 Quadrillion Btu



# Distributed Bioenergy: Achieving Forestry and Community Goals – Panel Members

- Moderator—Ed Gee, FS
- 1. Why are we doing these bioenergy facilities:  
Marcia Patton-Mallory, WFLC-FS
- 2. The process to get to the 113 proposed bioenergy  
facilities: Faline Haven- FS
- 3. The next steps to secure future bioenergy  
facilities -challenges and opportunities: Donna  
Perla- EPA
- 4. Sustainability considerations for bioenergy from  
forests: Henry Bastian - DOI



# Accomplishment's with Bioenergy Facilities

- Meeting Executive Order 13423
- Decreasing fossil fuel dependency
- Decreasing wildfires through hazardous fuel reduction
- Decreasing thermal and CHP costs
- Decreasing GHG through wood substitution
- Decreasing our CO2 emissions - climate change
- Increasing Forest Health Restoration
- Increasing National Security

# Thank You

Q&A's







# We can decrease the effect of drought, pests, and wildfires

- Strategically placing these bioenergy facilities in areas close to the raw material
- Decrease the many large fires that are in diseased and drought-stressed forests.

