WOOD TO ENERGY INITIATIVE USDA

A Status Update

By

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OVERVIEW

- Background of the Initiative
 - Why Forest Restoration Economy
 - Direction from Three Undersecretaries
 - RD and FS accomplishments
- Current Activities
- Future Activities?

BACKGROUND

- Letter Oct. 2010 Forest Restoration Economy
 - Comprehensive Review
 - Project Development and Support
 - Strike Team
 - Wood to Energy Program Compendium
 - Joint Outreach and Education
 - MOU DOD, DOE, DOI, DOT
- Letter from Sept 2011 Action Items from Comprehensive Review

WHY? FOREST RESTORATION

- Watersheds Denver, Santa Fe
- Wildlife Habitat Kirkland's Warbler, Mexican Spotted Owl, Wild Turkeys, Rocky Mtn Elk
- Wildfire
- Forest Health Insects and Disease
- Wood production
- Community benefits
- Job Creation

BARK BEETLE MORTALITY





REAP - WOOD TO ENERGY INVESTMENTS

- Total Investment of over \$62M in 190 projects
- Leveraged an additional investment of \$126M
- Total Energy Production of 2.27 million MWh BTU
- Enough to power almost 200,000 average homes

BIOENERGY PROGRAM FOR ADVANCED BIOFUELS

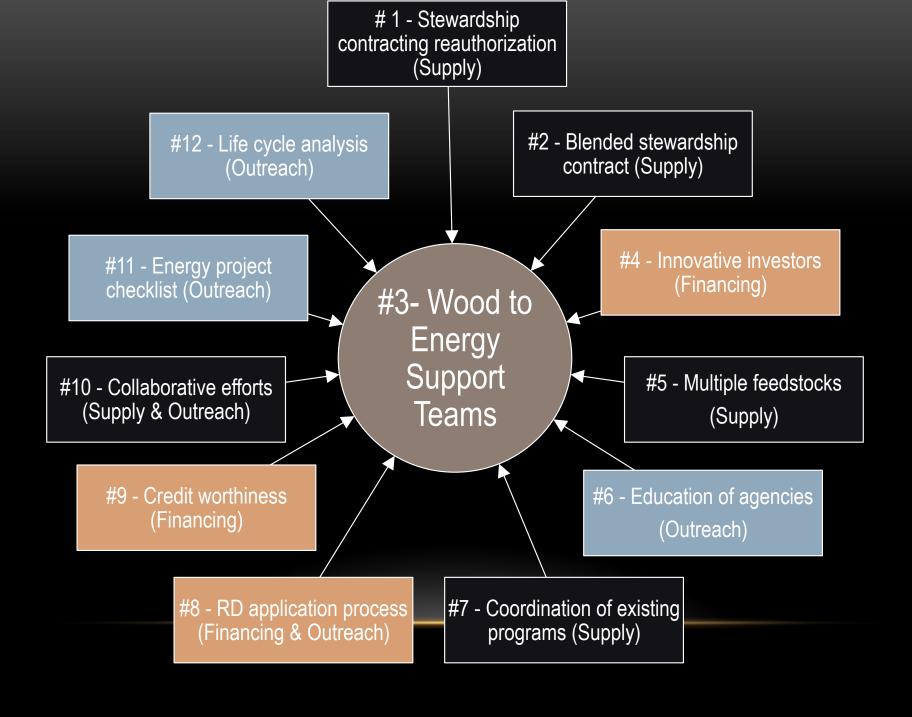
- Provides payments to producers advanced biofuels
 - 28 Pellet Manufacturers
 - 16 states
 - ~ \$1.4 million in 2011

FOREST SERVICE WOODY BIOMASS UTILIZATION GRANTS

- 2011 Refocused on Preconstruction Items Engineering, permitting, etc.
- Fill a gap in assistance for developing wood energy projects – synergy between programs
- Examples: Sawmill 2.5 MW CHP; School heating system

COMPREHENSIVE REVIEW 12 ACTION ITEMS

- State Jump-Start Teams
- Education/Outreach
- Stewardship Contracting Two items
- Coordinating Landowner Assistance programs
- Multiple Feedstocks
- Innovative Investments
- Equipment Manufacturers/Distributors
- Credit Worthiness
- CHP checklist
- Collaboration Social License
- Life Cycle Analysis



STATE SUPPORT TEAMS

- State Level Support Teams Why?
 - Template Team/Network:
 - FS Regional Biomass Coordinator
 - Rural Development Energy Coordinator
 - State Forester
 - State Energy
 - State Commerce/Econ Development
 - Consulting Engineers \$\$
 - NGO's Social Acceptance Workshops, marketing \$\$
 - Forest Based Collaborative Groups
 - Economic Development
 - State DEQ

FUTURE

- Expanded Work with others DOD, DOE, HUD, Commerce, EPA
- Funding to make it work FS FY 2013 Budget CWE
- Focus on developing clusters production/distribution businesses
- New Financing models
- Focus on Fuel Oil/Propane markets + CHP
 - 25 Billion gal = ~\$75 Billion
 - ~177 million BDT about ½ of the Billion Ton Study

NATIONAL FUEL OIL & LPG USE

	Fuel Oil	LPG	Total Gallons
Industrial	8.0 billion	2.7 billion	10.7 billion
Residential	4.3 billion	5.5 billion	9.9 billion
Commercial	3.0 billion	1.4 billion	4.4 billion
Total	15.3 billion	9.6 billion	24.9 billion
IOtai	15.5 billion	9.6 billion	24.9 billion
Price	\$3.56	\$2.05	
Total cost	\$54 billion	\$20 billion	\$74 billion

Top 20 States Fuel Oil and LPG in Billions of Gallons

