Overview of Assessment

Target Study Area

Value Added Utilization Examples

Vegetation Cover

Landownership

Project Timeline

Questions
WOOD UTILIZATION ASSESSMENT – PART I

Tasks to be completed:

- Biomass feedstock supply analysis
- Biomass supply competition analysis
- Regional biomass feedstock supply analysis
- Value-Added utilization options
- Draft and Final Report
TYPES OF WOOD WASTE CONSIDERED

- Forest residuals from management operations (limbs, tops, small diameter stems)
- Woodland restoration residuals (pinon-juniper removals)
- Wood waste from hazardous fuels reduction activities (limbs, small stems)
- Forest products manufacturing byproducts (sawdust, bark, shavings)
- Urban wood waste (tree trimmings, pallets, clean construction wood)
Target Study Area (TSA) is a 50 mile radius from Taos
5,026,090 acres
Includes portions of the Carson and Santa Fe National Forests
WOOD UTILIZATION ASSESSMENT – PART II

Key questions to be addressed:

- What value-added forest biomass utilization business models, scaled to local resource sustainability, have the highest potential for successful implementation by local contractors?
- Which business models are complementary such that a coordinated approach is possible – one that facilitates multiple businesses producing a variety of value-added products?
- How should these multiple businesses coordinate so that a healthy equilibrium and triple bottom line, represented by a balance between local environment, community and economy, is accomplished?
EXAMPLES OF VALUE-ADDED OPTIONS

- Power and thermal energy
- Soil amendments (e.g., compost and biochar) and landscape cover
- Biochar as filtering media
- Animal bedding
- Post/pole products for agricultural use
- Post/pole products for architectural use (such as vigas)
- Fencing products
EXAMPLES OF VALUE-ADDED OPTIONS (cont’d)

- Firewood and densified fuel logs
- Wood pellets for heating and/or power
- Community-scale combined power and heat production
- Greenhouse and native plants nursery
- Rustic furniture/outdoor recreation sets
- Small log sawmill
- Advanced biofuels for transportation
- Bioproducts (biochemicals, nanocellulose)
TSA has the common vegetation types of the southern Rocky Mountains. Vegetation types range from high elevation aspen and spruce-fir to lower elevation grasslands or sagebrush and shrublands.
VEGETATION COVER FINDINGS

- Conifer Forest, 36.8%
- Pinyon-Juniper Woodland, 14.5%
- Oak Woodland, 1.3%
- Shrubland, 20.5%
- Riparian, 1.2%
- Grassland, 14.5%
- Non-Vegetated, 0.5%
- Open Water, 0.3%
- Developed, 1.9%
- Agriculture, 0.9%
- Aspen, 7.6%
- Major Landowners are the USFS, BLM, NM State, Native American and Private
- USFS, BLM, and Native American lands have wilderness exclusions
- NM State lands include Parks, Game and Fish and State Land Office.
LANDOWNERSHIP FINDINGS

- Private, 43.8%
- USFS, 29.7%
- USFS Wilderness, 5.7%
- BLM, 9.2%
- BLM Wilderness, 1.4%
- State Land Office, 3.2%
- State Parks, Game&Fish, 1.5%
- Native American Wilderness, 1.1%
- Native American, 4.2%
## Land ownership of potentially available biomass

### Forest and woodland vegetation types by ownership class

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<th>Forest or Woodland Vegetation Type</th>
<th>USFS (Non Wilderness)</th>
<th>State Land Office</th>
<th>BLM (Non Wilderness)</th>
<th>Private</th>
<th>Pueblo (Non Wilderness)</th>
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<tr>
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<td>ACRES</td>
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<tr>
<td>Aspen</td>
<td>181,584</td>
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<td>Conifer Forest</td>
<td>699,225</td>
<td>37.8%</td>
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<td>Oak Woodland</td>
<td>24,421</td>
<td>37.9%</td>
<td>1,341</td>
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<td>Pinyon-Juniper Woodland</td>
<td>212,155</td>
<td>29.0%</td>
<td>19,692</td>
<td>2.7%</td>
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* PERCENT calculation:
  Total vegetation type acres in the TSA, what percent is found in specified ownership class.
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QUESTIONS or HECKLING REMARKS?

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