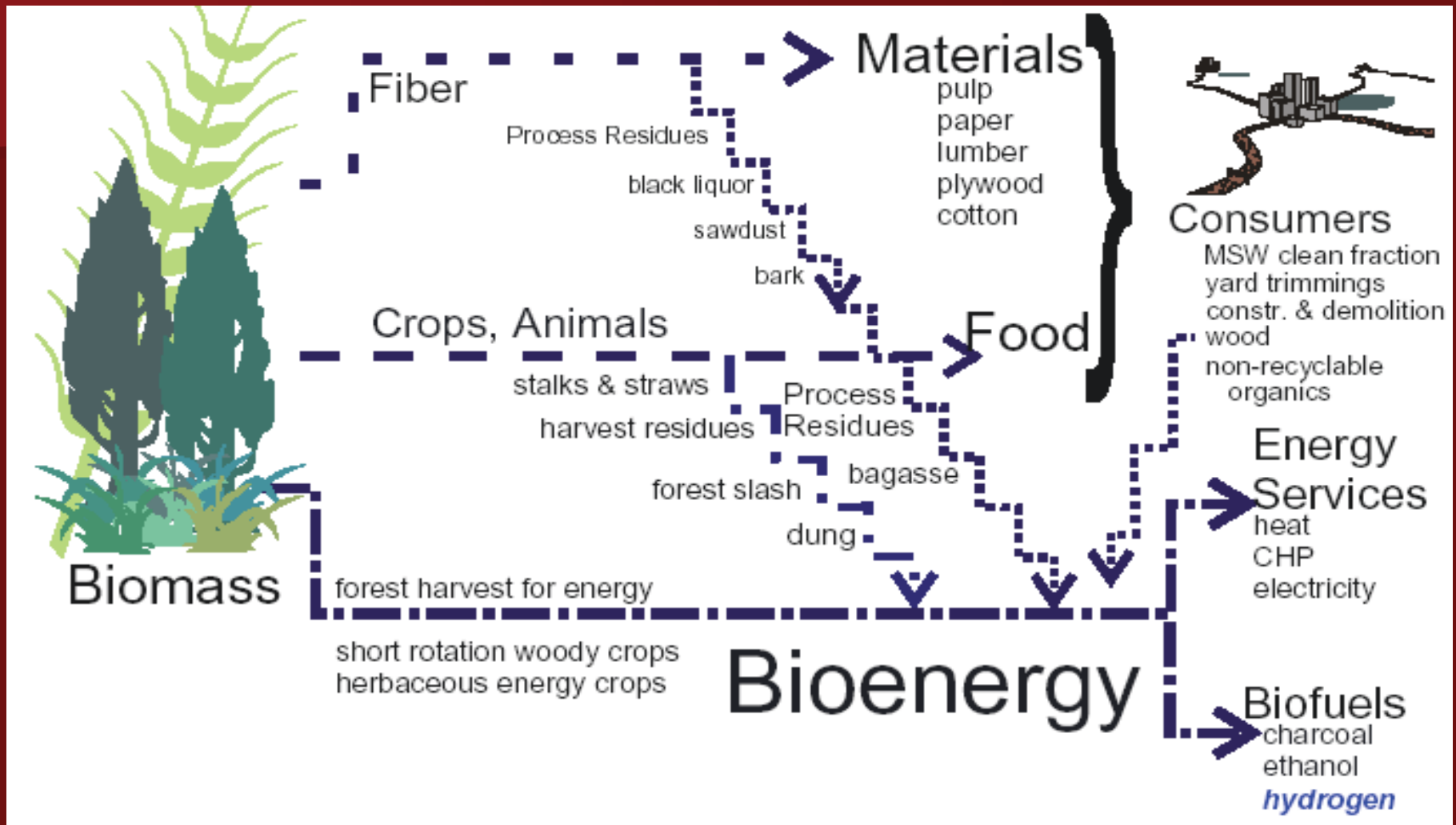


**Coquille Tribal
Woody Biomass
Utilization
Project Update
May 11, 2010**

Where are we today?

- Why Biomass?
- Feasibility Study
- Stimulus Opportunities
- Next Steps

Why Biomass????



Why Biomass????

- Creates industrial jobs in the community
- Provides base-load renewable energy (24/7) on a cost effective basis. (Today coal-fire makes up over 40% of Oregon's energy supply)
- Significant improvement in air quality (eliminating open burning)
- Reduces waste material destined for landfills
- Supports hazardous fuels reduction

Environmental Benefits

(cont'd)

- Reducing the Carbon Impact



Carbon “Neutral”

- Biomass absorbs carbon dioxide during growth of wood and green materials, and emits it during conversion
- It recycles the carbon and does not add to the greenhouse effect



Not Carbon Neutral!



Where will the Wood Come From?

- One of the key findings of the resource assessment was that we need to expand our “wood basket”
- The recommendation from the study was to test “Roll-Off Bin” technology developed in Montana.



Roll-Off Bin Technology



- In May 2008 the Tribe was awarded a grant to purchase the above equipment to test the use of the system in the Oregon Coast Range.

Roll-Off Technology

- Using a truck with a hydraulic hook-lift, and a central concentration and grinding yard.
- Initial concept was to use the roll-off bins as set-out containers at landings during logging operations.
- Other configurations have included the hook-lift truck working within the rotation of log trucks and waiting at the landing while a bin is loaded as well as returning to pick up slash from road-side piles after logging operations have concluded.
- Tribe will evaluate the operational efficiencies (and inefficiencies), logistical consequences, unit layout considerations, and cost tradeoffs of the several slash collection configurations.



Package

Roll-Off Bin Technology

- Using the “Bin System” we have been able to reduce the cost of gathering slash from the woods significantly in certain situations.
- Operational Factors Influencing Cost
 - Central Grinding Site
 - Distance/time of travel between unit and collection site
 - Loading method
 - Economies of Scale

Roll-Off Containers.....

“Silver Bullet” or “Plug Nickel”

- Optimizing Collection Systems will require different tools for different occasions.
 - Roll-Off Containers
 - Slash Bundling
 - Grinding on site
 - Special Chip Van Design, etc....



Feasibility Study Results

Summary of Study Results

- TSS found that there was an adequate amount of fuel/feedstock potentially available to supply a 15 to 20 megawatt power facility.
- TSS determined that fuel could be sourced from within the TSA at a blended fuel price that the project could support.

Stimulus Money?

**To take advantage
of Stimulus
Dollars...
It would be a
Horse- Race**



- Project must break ground by December 2010
- Meeting this deadline is unlikely. Focus on Extending Grant in lieu of Investment Tax Credit in ARRA.

Where do we go next?

- Continue to refine fuel supply assumptions related to cost and availability.
- Continue to explore local, state, federal, and private partnership opportunities.





Your Questions?

