Woody Biomass Fuels

Central Washington
Biomass Energy Workshop
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Fuels

- types
- sources
- pricing
- contracts
- considerations
What does woody biomass mean to you?
Pellets

- Available commercial product
- Several facilities deliver bulk
  - Oregon-Bear Mtn, Ochoco
  - Washington
  - Idaho
- Simple contracts
  - Handshake, purchase order
  - One-year contract
- Prices
  - FOB $135-150/ton
Wood chips

- Sources
  - Forestry residual
  - Commercial logging
  - Fuels reduction
  - Restoration
- Types
  - Hog fuel
  - Paper quality chips
  - “wood fuel chip”
- Prices
  - $40--$100/BDT
Contracts

- Specifications
- Measurement methods
- Testing procedure
- Term
- Delivery schedule
- Payment
- Pricing
Key criteria: Raw material form is important

Every process has a raw material specification
Value helps to move residuals

Saw log $$$$  
Pulp log $$  
Slash $

Saw log $$$$$  
Pulp log $$  
Slash $

Slash $
Value chain considerations

Resource: quality, price, availability

Transport: mode, distance, terrain

Process – Product (technology)

Transport

Market
Leverage existing industry

- Existing infrastructure is an important opportunity:
  - Contractors
  - Primary processing (sawmills etc)
  - Powerplants
  - What do they pay?
  - Feedstock specification?
  - Opportunity to adapt to changing feedstock?

Infrastructure is difficult to bring back
...when it’s gone it’s gone.
Thanks! Questions?

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