

Assistant Secretary-Indian Affairs

Office of Indian Energy and Economic

Development



Project Overviews

Scott Haase Renewable Energy Engineer ASIA, Division of Energy and Mineral Development

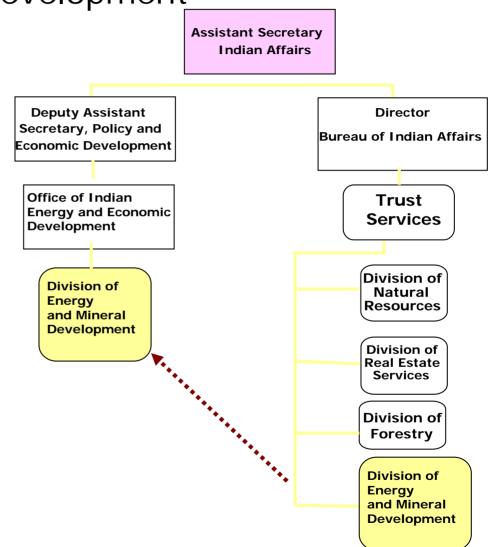
Presented at:
U.S. DOE Tribal Energy Program Annual Meeting

October 26, 2006

Reassignment of the DEMD to the Office of Indian Energy and Economic Development

Prior to April 14, 2005 the Division was under the Office of Trust Services.

The Division now reports to a newly formed office – The Office of Indian Energy and Economic Development



DEMD Responsibilities

- Assist tribes with implementing effective energy and mineral development strategies
- Provide the best possible technical, engineering and economic advice to Indian landowners seeking to manage and develop their energy and mineral resources
- Manage Indian energy and mineral data

Energy and Mineral Development Program

- Provides funding to Tribes to evaluate energy and mineral options
- Presently funding 60+ tribal renewable energy projects
- New request for proposals (RFP) due December 15 2006

DEMD-Funded Projects Being Presented Today

Tribe	Project Type
Colville	Biomass harvest and cogen (brief results)
Mescalero Apache	Biomass power, pellets, liquid fuels
Hualapai Tribe	Tribal utility and wind assessment
St. Croix	Biomass cogeneration
BIA Southwest Regional Office	Biomass facility heating at BIA facilities
Ewiiaapaayp	Wind Assessment
Red Lake	Bio-oil and biomass heating of a greenhouse
Aqua Caliente Band of Cahuilla	
Indians	Solar

Colville

Woody Biomass Feasibility Study

- Determine woody biomass availability, sustainability and economics
- Assess biomass use to optimize revenues and use of logging and mill residue
- Develop tribal load data
- Evaluate Colville Indian Power & Veneer (CIPV) cogen plant
- Assess new options for biomass power to improve CIPV performance and profitability

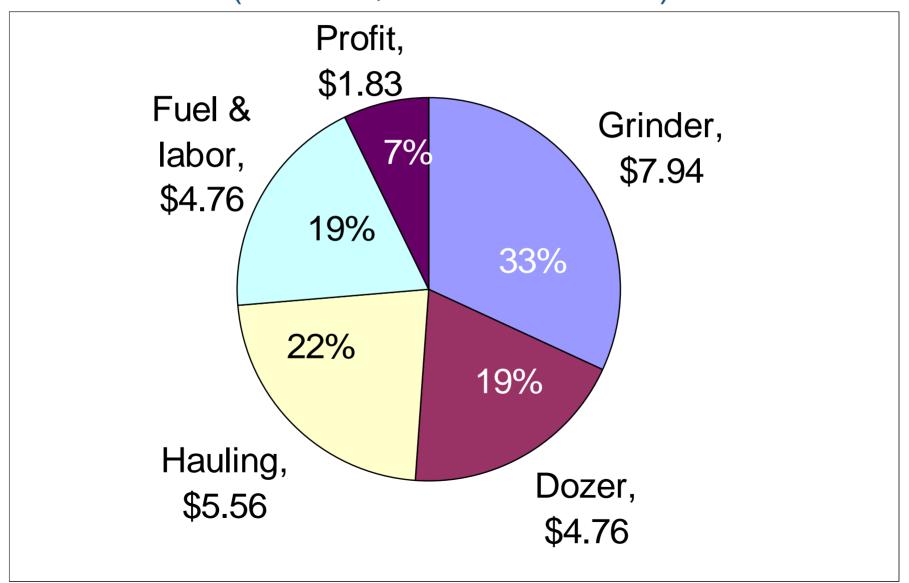


Current Harvesting Conditions

- 78 Million Board Feet harvested annually
- Tribe owns 2 saw mills:
 - Colville Indian Precision Pine (CIPP)
 - Colville Indian Power and Veneer (CIPV)
 - 9 MW Cogeneration power plant
- Timber production has the potential to generate 62,000-94,000 green tons of biomass annually



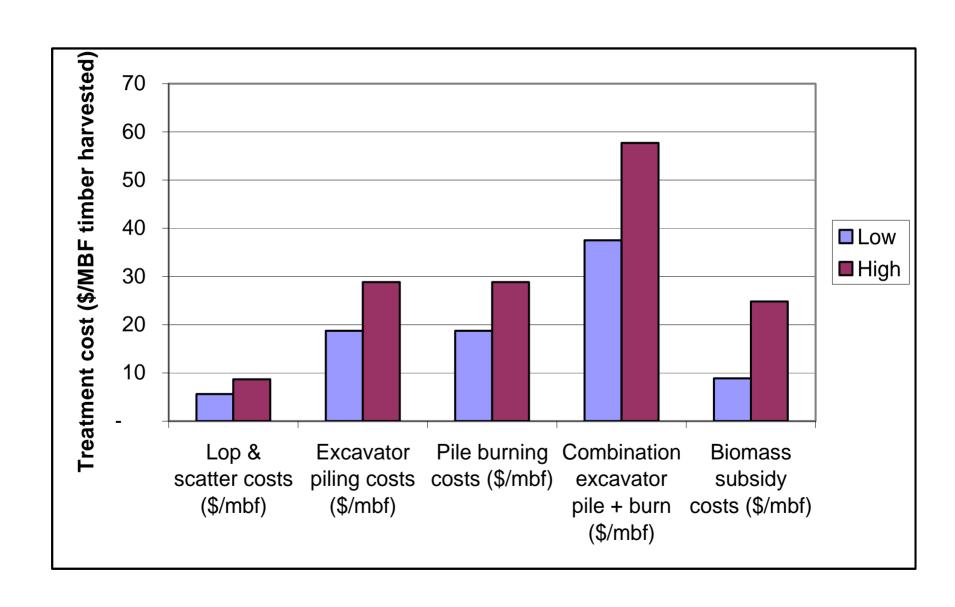
Biomass Harvest Cost 712 Acre Slash Chipping Operation (Total = \$24.85/Green ton)



Avoided Slash Treatment Costs Mineral Ridge, Block 25

355
913
1,013
\$24.84
\$19.84
\$20,098
\$106,500
\$86,402
\$94.64
\$243.39

CTF Biomass Subsidy vs. Conventional Slash Treatment



Scott Haase

AS-IA, Office of Indian Energy

and Economic Development

12136 W. Bayaud, Suite 300

Contact Lakewood, CO 80228

Phone: 720-407-0667

Cell: 303-842-3249