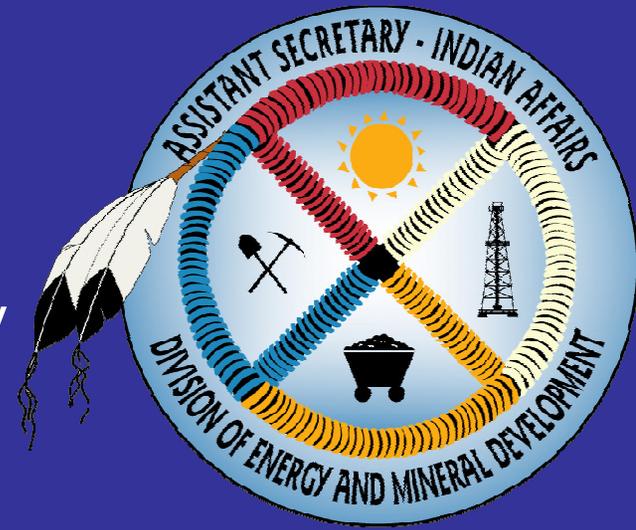


Assistant Secretary-  
Indian Affairs  
Office of Indian Energy  
and Economic  
Development



# Division of Energy and Mineral Development

## The Division of Energy and Mineral Development (DEMD) is responsible for:

- developing effective energy and mineral development strategies.
- providing the best possible technical, engineering and economic advice to Indian landowners seeking to manage and develop their energy and mineral resources
- managing Indian energy and mineral data.

# Office of Indian Energy and Economic Development

## Functions

**Director – Robert Middleton**  
**Secretary – Nancy Redhouse**

Washington, DC

### Management Staff

Darryl François	Energy
David Johnson	Capital Investment
Mary Milam	Budget
Rosalyn Worthan	Bonding/Staff Assistant
Elizabeth Nagorski	Pres. Management Fellow

## Lakewood, CO

### Division of Energy & Mineral Development

**Chief – Stephen Manydeeds**

- Provide management direction, policy guidance, oversight, and technical support to tribes in the development of energy and mineral resources on trust lands.
- Coordinate energy and mineral resource activities with other Federal, State, and local governmental agencies, industry personnel, and tribal governments.

Suite 300, 12136 W. Bayaud Avenue,  
Lakewood, CO 80228  
303-969-5270 \* FAX 303-969-5273

### Division of Economic Development

**Chief – Jack Stevens**

- Foster strong, sustainable reservation economies through
  - ✓ management of economic programs, conferences, workshops, and grants;
  - ✓ marketing of energy and mineral resources; and
  - ✓ Identification of government procurement opportunities
- Strengthen tribal business infrastructure by facilitating the
  - ✓ development of strategic management and business plans;
  - ✓ transfer of information and technology to tribes; and
  - ✓ adoption and implementation of commercial laws and the training of tribal administrators.

### Division of Workforce Development

**Chief – Lynn Forcia**

- Manage Pub. L. 102-477 including funds from DOL, HHS, and DOI for a variety of services that includes employment, training, child care, welfare reform, education and job creation.
- Review, approve, monitor, and evaluate tribal plans, and award grants, and collect performance data and assist tribes in developing job creation and economic development activities.
- Manage DOI Job Placement and Training, Vocational Training and Employment Assistance program including development of policies and procedures.

### Division of Capital Investment

**Acting Chief – David Johnson**

- Manage loan guaranty, insurance, and interest subsidy program; and serve as liaison with lending organizations, tribes, and Bureau credit offices.
- Identify and facilitate capital investment opportunities for tribes and individual Indian entrepreneurs.
- Provide access to capital markets through coordination with government capital programs and the private investment community to address the capital needs of tribes and individual Indian entrepreneurs.

Room 20 – South Interior Building, 1951 Constitution Avenue, NW, Washington, DC 20245

202-219-0740 \* FAX 202-208-4564

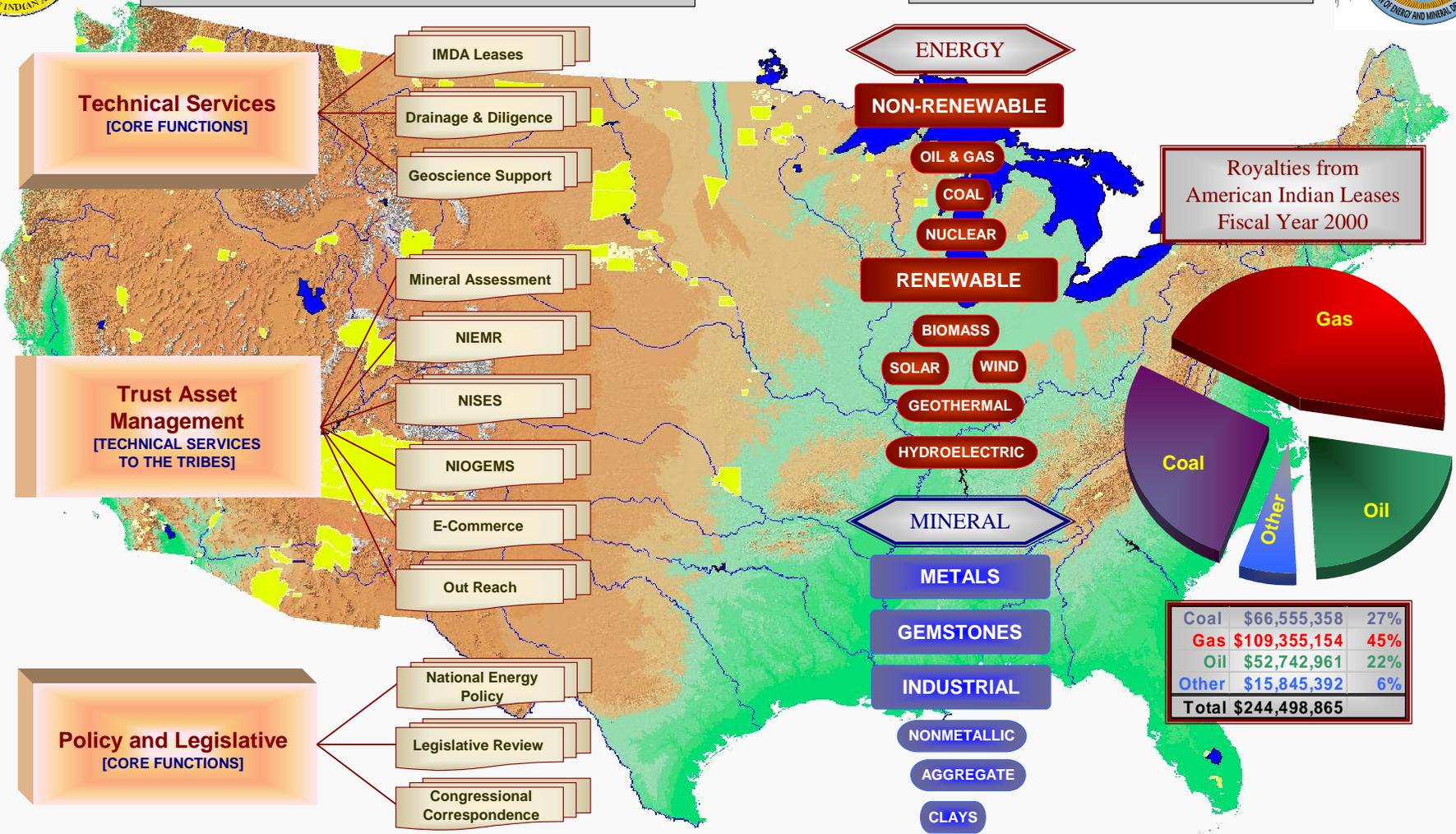
# Expansion of Staff and Capabilities

- Prior to August 2003
  - Three technical staff members in Fluid and Solid Group
  - MAP funding consistently below \$1 million, as low as \$200,000
  - Limited ability to work on tribal projects
- October 2006
  - Twenty-seven technical staff members in the Fluid, Solid and Renewable Groups
  - Significant increase in numbers of tribal projects
  - Ability to interact more closely with tribes

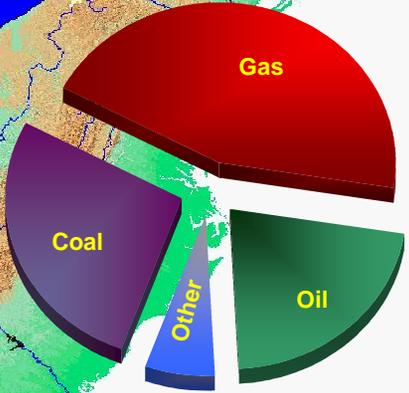


**DIVISION OF ENERGY AND MINERAL DEVELOPMENT**  
*Program Functions*

Department of the Interior  
 Assistant Secretary - Indian Affairs  
 OFFICE OF INDIAN ENERGY  
 AND ECONOMIC DEVELOPMENT



Royalties from  
 American Indian Leases  
 Fiscal Year 2000



Coal	\$66,555,358	27%
Gas	\$109,355,154	45%
Oil	\$52,742,961	22%
Other	\$15,845,392	6%
<b>Total</b>	<b>\$244,498,865</b>	

DEMD  
Renewable  
Energy Staff,  
Scott Haase,  
Mechanical  
Engineer and  
Jenny Bredt,  
Renewable  
Energy  
Specialist



# Energy & Mineral Development Program





# United States Department of the Interior

OFFICE OF THE SECRETARY  
Washington, D.C. 20240

Division of Energy and  
Mineral Development

SEP 5 , 2006

Dear Tribal Elected Official:

The Division of Energy and Mineral Development (DEMD) is now soliciting requests from Tribes for energy and mineral assessment and development projects for the 2007 fiscal year. DEMD provides funds for tribal energy and mineral projects each year under a program previously named *Mineral Assessment Program* or MAP.

This year the program has a new name and a new emphasis. The program's new name is *Energy and Mineral Development Program (EMDP)*. The word "energy" is added to indicate all of the resources eligible for funding (oil, gas, coal, biomass, wind, solar, geothermal), while the word "development" replaces "assessment" to emphasize our commitment to tribal economic development through the utilization of the tribe's own energy and mineral resources.

The deadline for submitting a proposal will be Friday, December 15, 2006. On or before that date, the Tribe must submit an administratively complete proposal to the Agency and Regional office, while concurrently transmitting a copy to the Division of Energy and Mineral Development office at:

INDIAN AFFAIRS  
Division of Energy and Mineral Development  
Attn: Mineral Assessment Program  
12136 West Bayaud Ave., Suite 300  
Lakewood, Colorado 80228

Please be aware that the distribution of funds for awarded proposals is conditional on the Division of Energy and Mineral Development office receiving their 2007 operating budget. We are asking for proposals now so that tribes have ample time to prepare their requests, or to request technical assistance from DEMD staff in preparing their energy and mineral development proposals for funding consideration.

All requests should conform to the guidelines established in the document: *Energy and Mineral Development Program – Proposal Writing Guidelines (revised August, 2006)*.

## **TRUST LAND STATUS**

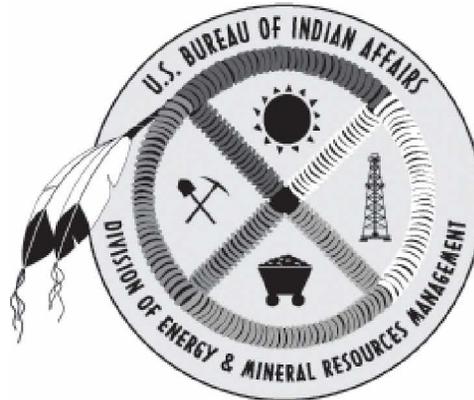
Please be informed that energy and mineral development funding can only be made available to Tribes whose lands are held in trust or restricted fee by the Federal government. Congress has appropriated these funds for mineral assessment contracts to assess mineral potential only on Indian trust or restricted fee lands.

DEMD does not keep records of land status and ownership, as BIA realty offices normally perform these functions. We expect each Tribe to know the status of their lands and adhere to

# **ENERGY AND MINERAL DEVELOPMENT PROGRAM (EMDP)**

## **Proposal Writing Guidelines**

*REVISED - AUGUST 2006*



### **ISSUING OFFICE:**

U.S. DEPARTMENT OF INTERIOR  
Assistant Secretary – Indian Affairs  
Office of Indian Energy and Economic Development  
Division of Energy and Mineral Development  
12136 W, Bayaud Avenue, Suite 300  
Lakewood, Colorado  
(720) 407-0602

# 2006 Renewable Energy Projects

## Total= \$1,172,604

Passamaquoddy	Tidal
Fond du Lac Crow	Wind, Market, Load, Hydro
Couer d'Alene	Wind and Biomass Wind
Kaw	Wind
Umatilla	Wind
BIA SWRO	Regional Biomass Study
Wampanoag	Wind
Cherokee Nation	Wind
Hualapai	Wind Ph.2
Mescalero	Woody Biomass
Narragansett*	Wind Monitoring and Final Report
St. Croix	Biomass Power Plant
Ewiaapaayp	Wind and Transmission
Bad River	Wind Ph.3
Sisseton-Wahpeton	Wind
Nez Perce	Wind Assessment
Colville	Biomass Heated Greenhouse
St. Croix	Natural Gas Peaking Power Plant
Wiyot/Table Bluff	Resource Assessment
Crow	Wind Power/ Transmission
Bad River	Energy Audit & Loads Assessment
San Carlos	Biomass Heat/Power

# 2005 Renewable Energy Projects

## Total= \$1,442,107

Agua Caliente	wind & biodiesel production
Hualapai	wind (3: 50m towers)
Passamaquoddy	wind (2: 50m towers) & tidal
Jemez Pueblo	forest residue biomass for thermal energy
Omaha and Flandreau Santee	wind (1: 20m tower ea.) COUP
Lower Sioux Community	oilseed biodiesel
St. Croix	3 & 8 MW woodchip biomass power plants
St. Croix	40-45 MW Natural Gas Peaking Plant Ph. 2
Red Lake	biomass heat & bio-oil power
Fond du lac	Renewable Assessment
Northern Cheyenne	Ph.2: Papermill/Retool Mill/Cogen for Heat
Otoe-Missouria Tribe of OK	Renewable Assessment
Bad River	wind (4: met towers)

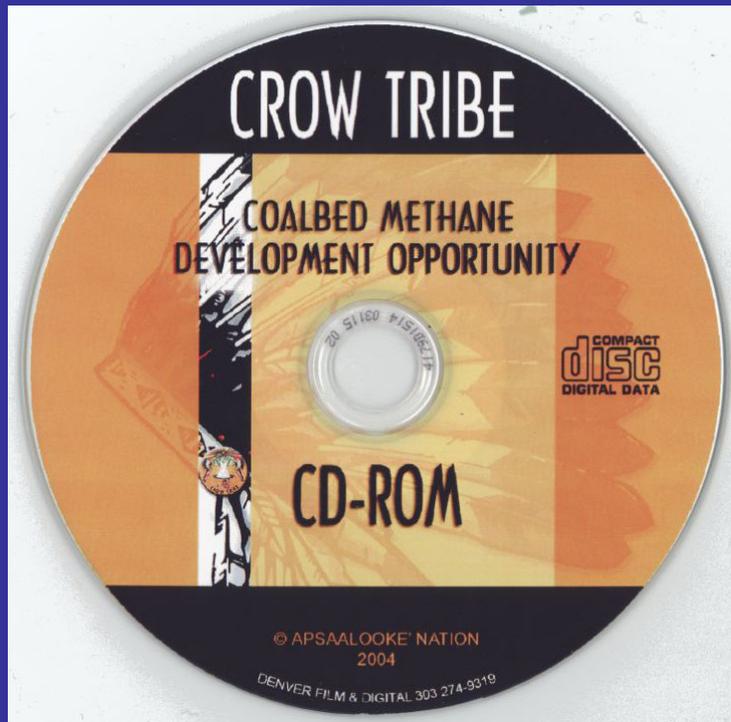
# 2004 Renewable Energy Projects

## Total= \$1,173,416

Agua Caliente	Renewable-Strategic Value Assessment
Bad River	wind
Colorado River	Hydro: assume ownership of dam
Colville	Woody Biomass Energy Production
Little River Band of Ottawa	Wind
Nez Perce	Biodiesel Plant and Promo CD
Northern Cheyenne	Biomass
Rocky Boy's	wind
Ewiiaapaayp & Campo	Wind
St. Croix	40-45 MW Natural Gas Peaking Plant Ph. 1
Skull Valley	solar
Tulalip	Biogas

# Outreach Program

DEMD provides opportunities for Tribes to attract industry interested in developing energy and mineral resources on their lands and informational brochures for Tribal projects.



CONFEDERATED TRIBES OF THE  
COLVILLE RESERVATION  
FORESTRY PROGRAM

## BIOMASS ASSESSMENT PROJECT



Contact Information:  
Colville Confederated Tribes Forestry Program  
(509) 634-2327  
Project Funded by :  
Assistant Secretary-Indian Affairs: Division of Energy and Mineral  
Development  
(303) 969-5270

# Native American Energy & Mineral Institute (NAEMI)

- NAEMI is a series of courses designed to provide training in the fundamentals of energy and mineral resources management to Tribal and BIA staff.
- Twelve courses will be held over the next two years.
- Courses will be also available at the Regional level by request.

Native American Energy and Mineral Institute  
Educational Services

## Short Course Announcement

Environmental Issues in Energy and  
Mineral Development

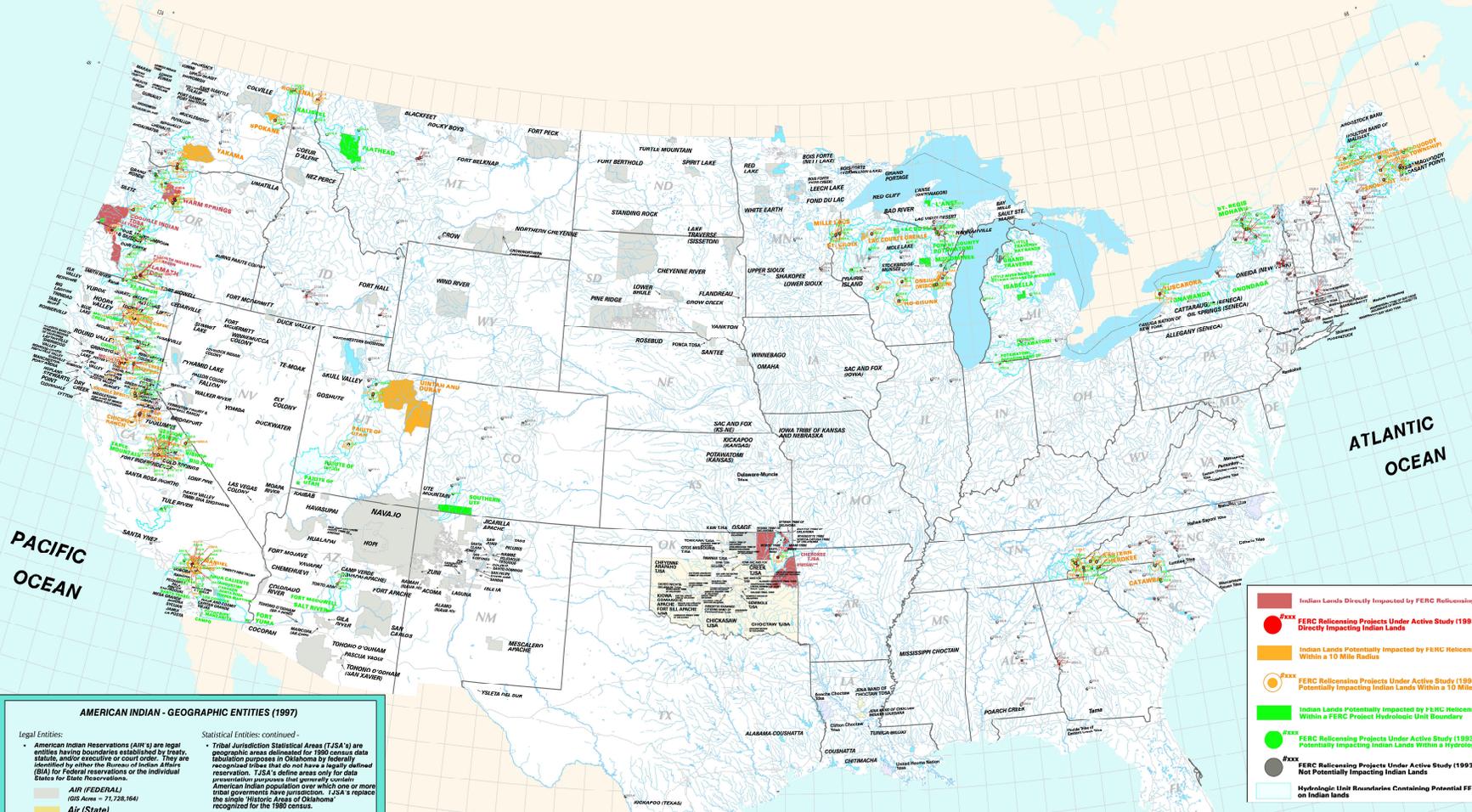
March 8-10, 2005      Denver, Colorado

Hosted by :



Bureau of Indian Affairs  
Division of Energy and Mineral Resources Management  
12136 West Bayaud Avenue, Suite 300  
Lakewood, CO 80228  
Phone: (303) 969-5270 Fax: (303) 969-5273

# Federal Energy Regulatory Commission (FERC): Relicensing (1993-2010) Potential Impacts on Indian Lands of the Contiguous United States



### AMERICAN INDIAN - GEOGRAPHIC ENTITIES (1997)

**Legal Entities:**

- American Indian Reservations (AIRs) are legal entities having boundaries established by treaty, statute, and/or executive or court order. They are identified by either the Bureau of Indian Affairs (BIA) for Federal Reservations or the individual States for State Reservations.
- AIR (FEDERAL)**  
(GIS Acres = 71,728,164)
- Air (State)**  
(GIS Acres = 3,368)

**Statistical Entities:**

- Tribal Designated Statistical Areas (TDSA's) are geographic areas delineated for 1990 census data tabulation purposes by tribal officials of federally and State recognized tribes outside of Oklahoma that do not have a legally defined reservation or associated trust lands. TDSA's define areas only for data presentation purposes that generally contain American Indian population under tribal jurisdiction and/or for which the tribe provides benefits and services to its members.
- TDSA (FEDERAL)**  
(GIS Acres = 2,438,444)
- Tdsa (State)**  
(GIS Acres = 3,038,701)

**Statistical Entities: continued -**

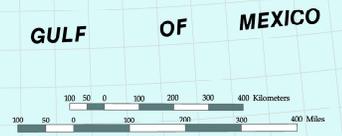
- Tribal Jurisdiction Statistical Areas (TJSA's) are geographic areas delineated for 1990 census data tabulation purposes in Oklahoma by federally recognized tribes that do not have a legally defined reservation. TJA's define areas only for data presentation purposes that generally contain American Indian population over which one or more tribal governments have jurisdiction. TJA's replace the single "Historic Areas of Oklahoma" recognized for the 1990 census.
- TJSA (FEDERAL)**  
(GIS Acres = 31,908,726)

**CIS Data Sources:**

American Indian lands obtained from 1992 U.S. Bureau of Census, Tribal Lands and reported into GIS (U.S. Census, 1992) and reported into GIS (U.S. Census, 1992) and reported into GIS (U.S. Census, 1992) and reported into GIS (U.S. Census, 1992).

Hydrologic Unit Data Source: 1986 U.S.G.S. Digital Line Graph (DLG)  
(Version: 1:100,000)  
(Source: 1:250,000)  
Points representing FERC license sites were obtained from the Federal Energy Regulatory Commission (FERC). The map accuracy of these sites is unknown.

- Indian Lands Directly Impacted by FERC Relicensing (1993 - 2010)
- FERC Relicensing Projects Under Active Study (1993-2010) Directly Impacting Indian Lands
- Indian Lands Potentially Impacted by FERC Relicensing (1993-2010) Within a 10 Mile Radius
- FERC Relicensing Projects Under Active Study (1993-2010) Potentially Impacting Indian Lands Within a 10 Mile Radius
- Indian Lands Potentially Impacted by FERC Relicensing (1993-2010) Within a FERC Project Hydrologic Unit Boundary
- FERC Relicensing Projects Under Active Study (1993-2010) Potentially Impacting Indian Lands Within a Hydrologic Unit Boundary
- FERC Relicensing Projects Under Active Study (1993-2010) Not Potentially Impacting Indian Lands
- Hydrologic Unit Boundaries Containing Potential FERC Impacts on Indian Lands



# Fond du Lac

## Biomass Gasification Assessment

- The biomass project completed a resource assessment, market analysis and an economic evaluation of a 20 KW gasification system for the Natural Resources building.
- The technology is from *Advanced Biogasification Technologies*.
- Scheduled for installation March, 2007.
- Tribe will receive parts beforehand and assemble unit on the Reservation.
- Tribe is negotiating an agreement to develop a partnership and manufacture units on the Reservation.





# Mescalero Apache, NM

## Woody Biomass Feasibility Study

Collaboration with the BIA Southwest Regional and Mescalero Agency Forestry Programs, National Interagency Fire Center, National Defense Council Foundation and New Mexico Congressional Staff.

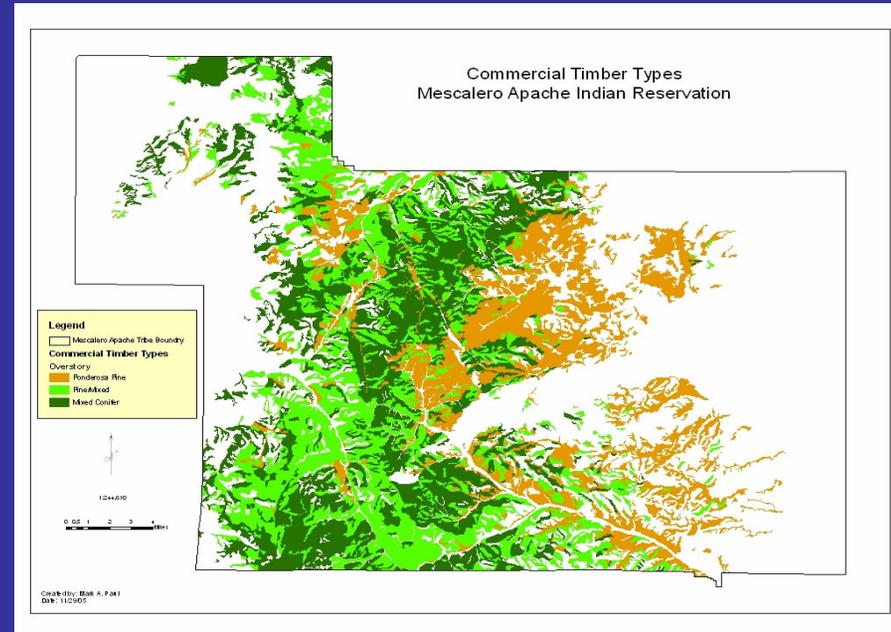
Two remaining sawmills in New Mexico and Sustainable Tribal Forestry and Hazard Fuels Reduction Program (fuel supply).

Comprehensive Biomass Resource Assessment initiated in September, 2006 include the following studies:

- Load Assessment of Mill and other Tribal Facilities
- Market Assessment - Tribal Use vs. Wholesale
- 1. Pellets
- 2. Power
- 3. Liquid fuels: ethanol and bio-oil
- Product Analysis – Power vs. Value Added Products
- Technology Evaluations and Economic Analysis.

### Major Accomplishment:

- The only large scale Stewardship Contract in Indian Country with the Lincoln National Forest (guaranteed additional fuel supply).



# Pueblo of Jemez

## Feasibility Analysis of Biomass Development for Thermal Energy Applications.

The Tribe is participating in the SW Region Biomass Study and the Southwest Indian Polytechnic Institute biomass project.

- A resource assessment to determine the quantity of material available and delivery cost to a given site has been performed.
- Focus on the space, water and industrial process heating markets in the area.
- Tribe completed an analysis of the market potential in areas within 50-75 miles of the resource. (Los Alamos, Santa Fe and Albuquerque). Primary market potential has been identified as SIPI.
- Tribe currently negotiating a 290 acre management unit with USDA-FS.



# DEMD Contact Information

- Stephen Manydeeds, Division Chief  
720-407-0600
- Scott Haase, Mechanical Engineer  
720-407-0667
- Jenny Bredt, Renewable Energy Specialist  
720-407-0660
- Faline Haven, Natural Resources Specialist  
720-407-0604