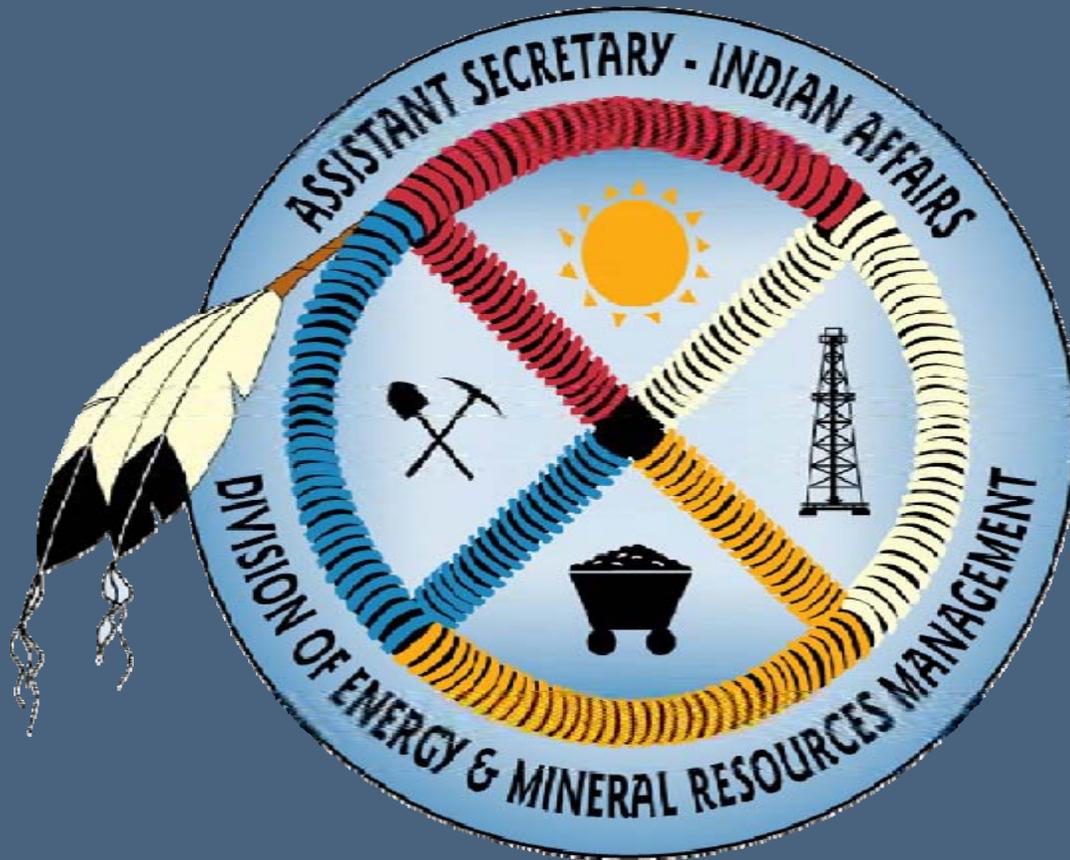


**Deputy Assistant Secretary,
Policy and Economic Development
Office of Indian Energy and Economic Development**

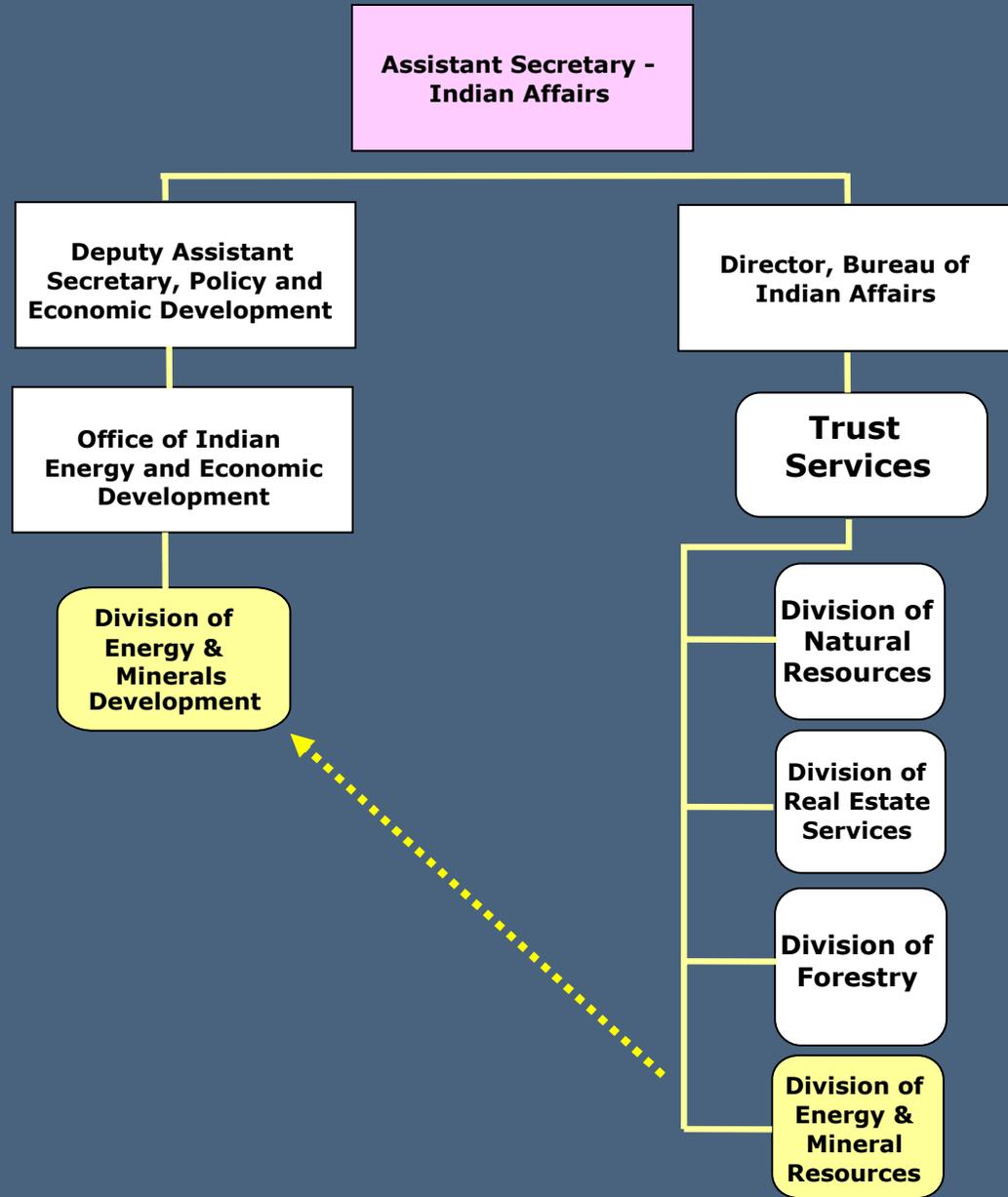


**Division of Energy and Minerals
Development (DEMD)
Denver, Colorado**

Realignment of the Division to the Office of Policy 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

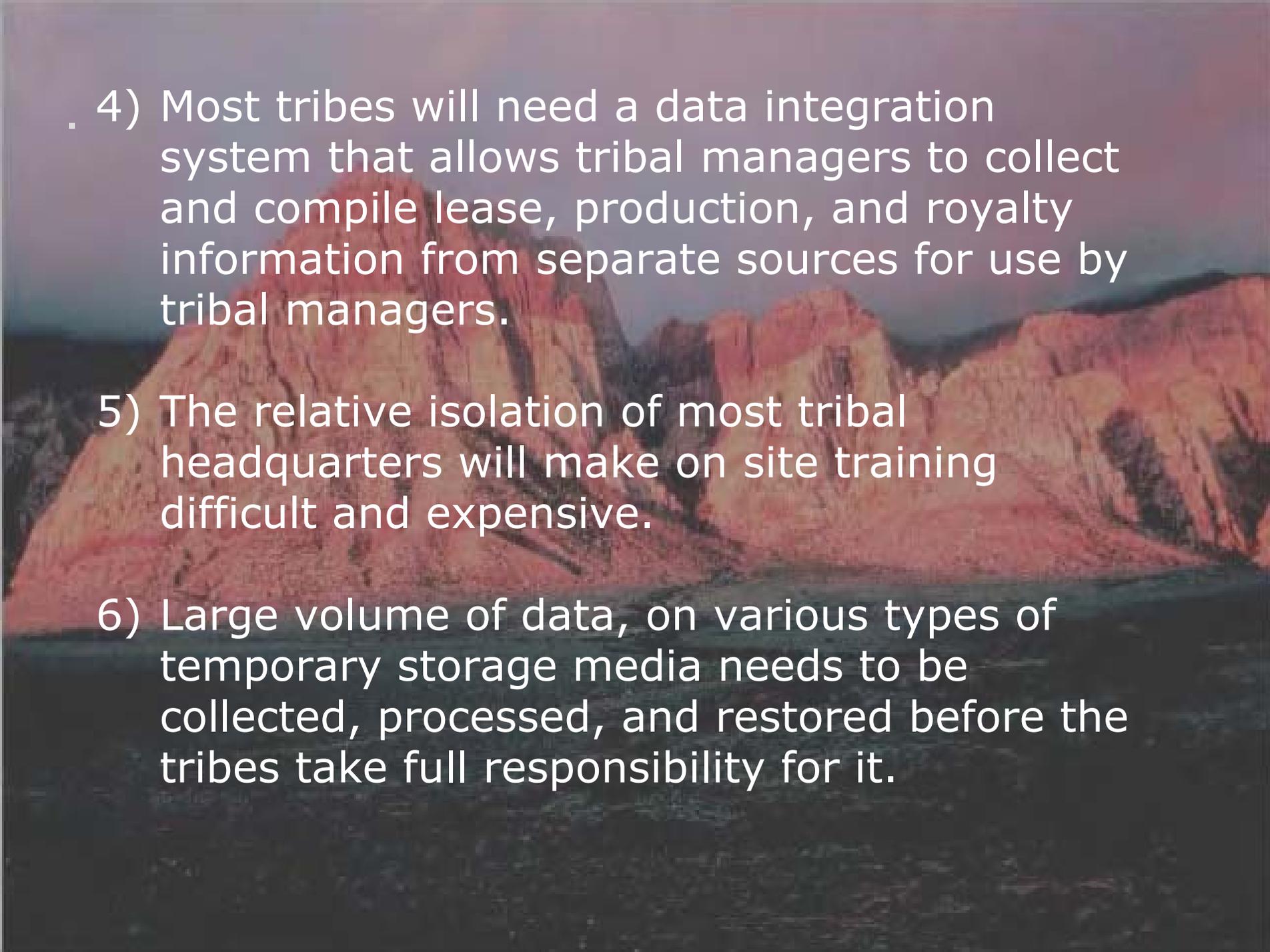


An oil pumpjack is the central focus of the image, set against a backdrop of a cloudy sky and a field. The pumpjack's long arm is in a high position, and the entire structure is supported by a metal frame. The text is overlaid on the left side of the image in a bright yellow font.

The corner stone for sustainable economic development in the United States have always been natural resources such as oil, gas, mining, forestry and agriculture. This also true for Tribal lands.

The Division of Energy and Minerals made the following observations:

- 1) The Tribes are developing more complex mineral agreements. Tribal and BIA mineral personnel must become better versed in mineral economics, mineral negotiation, mineral resource identification and mineral resource management.
- 2) Trained geotechnical help in Indian Country is scarce.
- 3) Some Tribes will need help in learning the vocabulary and fundamentals of minerals management. Many Tribes cannot afford full time geologist and engineers to support their programs.

- 
- 4) Most tribes will need a data integration system that allows tribal managers to collect and compile lease, production, and royalty information from separate sources for use by tribal managers.
 - 5) The relative isolation of most tribal headquarters will make on site training difficult and expensive.
 - 6) Large volume of data, on various types of temporary storage media needs to be collected, processed, and restored before the tribes take full responsibility for it.

The Division of Energy and Mineral Resources provides special services to the Indian energy and mineral owner that are unique within the Department of Interior.

The primary goal of the Division is to provide the best possible technical, engineering and economic advice to Indian landowners seeking to manage and develop their energy and mineral resources.

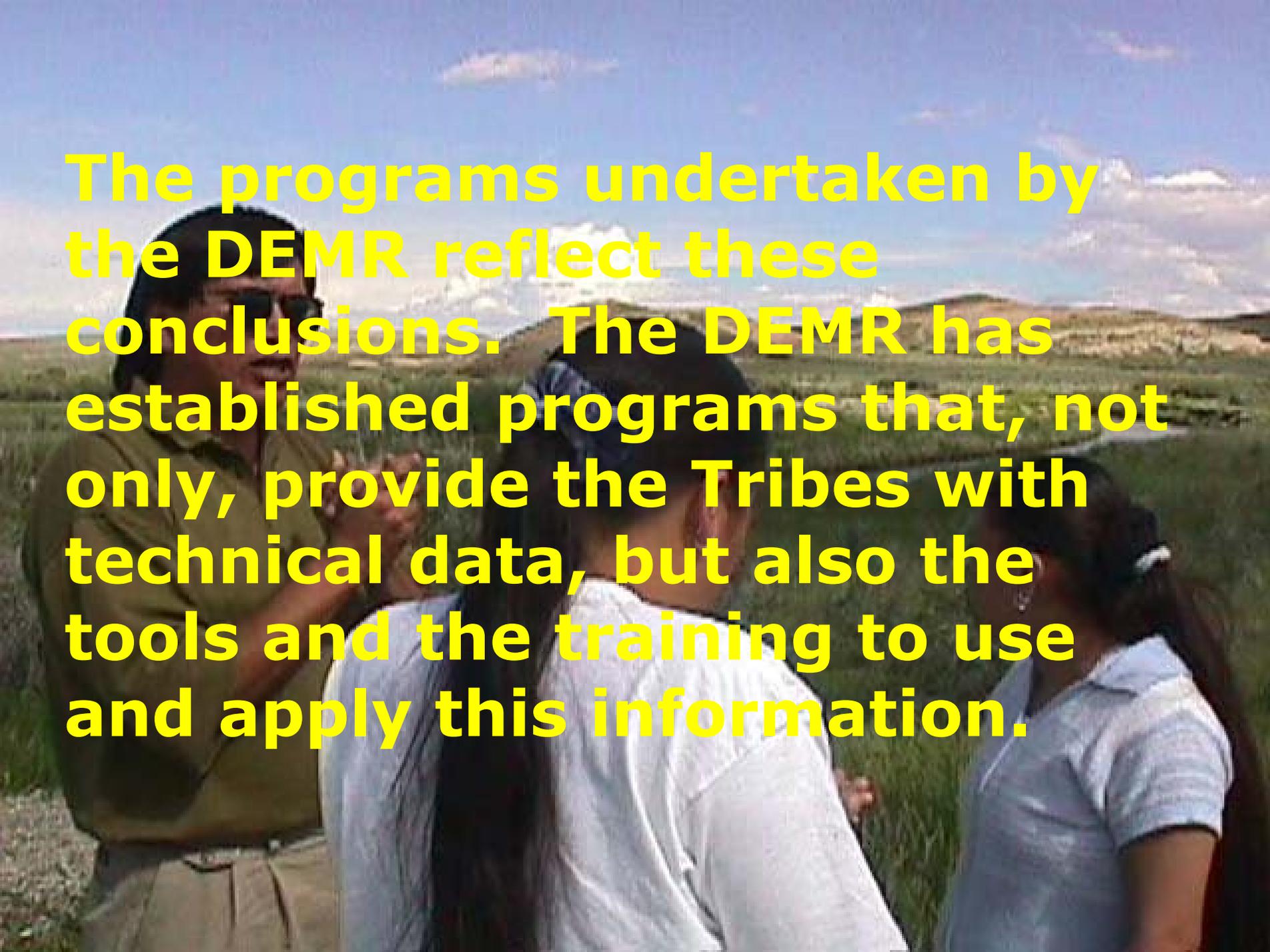
A group of five people, including men and women, are standing on a rocky outcrop overlooking a vast landscape. They appear to be in a professional or field setting, possibly discussing a project. The background shows a wide river, lush greenery, and distant mountains under a clear sky. The text is overlaid on the image in a bold, yellow font.

Division of Energy and Mineral Development (*DEMD*)

- ❖ The Division of Energy and Mineral Development (*DEMD*) reports to the Deputy Assistant Secretary – Policy and Economic Development, located in Washington, DC
- ❖ *DEMD* staff located in Denver, CO so as to be centrally located to tribes, and close to Federal agencies who also have trust responsibilities for Indian energy and mineral development – *MMS, BLM, OSM, USGS and NREL*
- ❖ *DEMD* is a technical advisory group for Tribes; not regulatory.
- ❖ *DEMD* has no line authority to the Tribes.

Responsibilities:

- ❖ Provide the best possible technical, engineering and economic advice to Indian landowners seeking to manage and develop their energy and mineral resources
- ❖ Generate effective energy and mineral development strategies
- ❖ Assist Indian energy and mineral owners during IMDA negotiations
- ❖ Provide technical data and interpretations for exploration and development of resources
- ❖ Manage and maintain existing Indian energy and mineral data

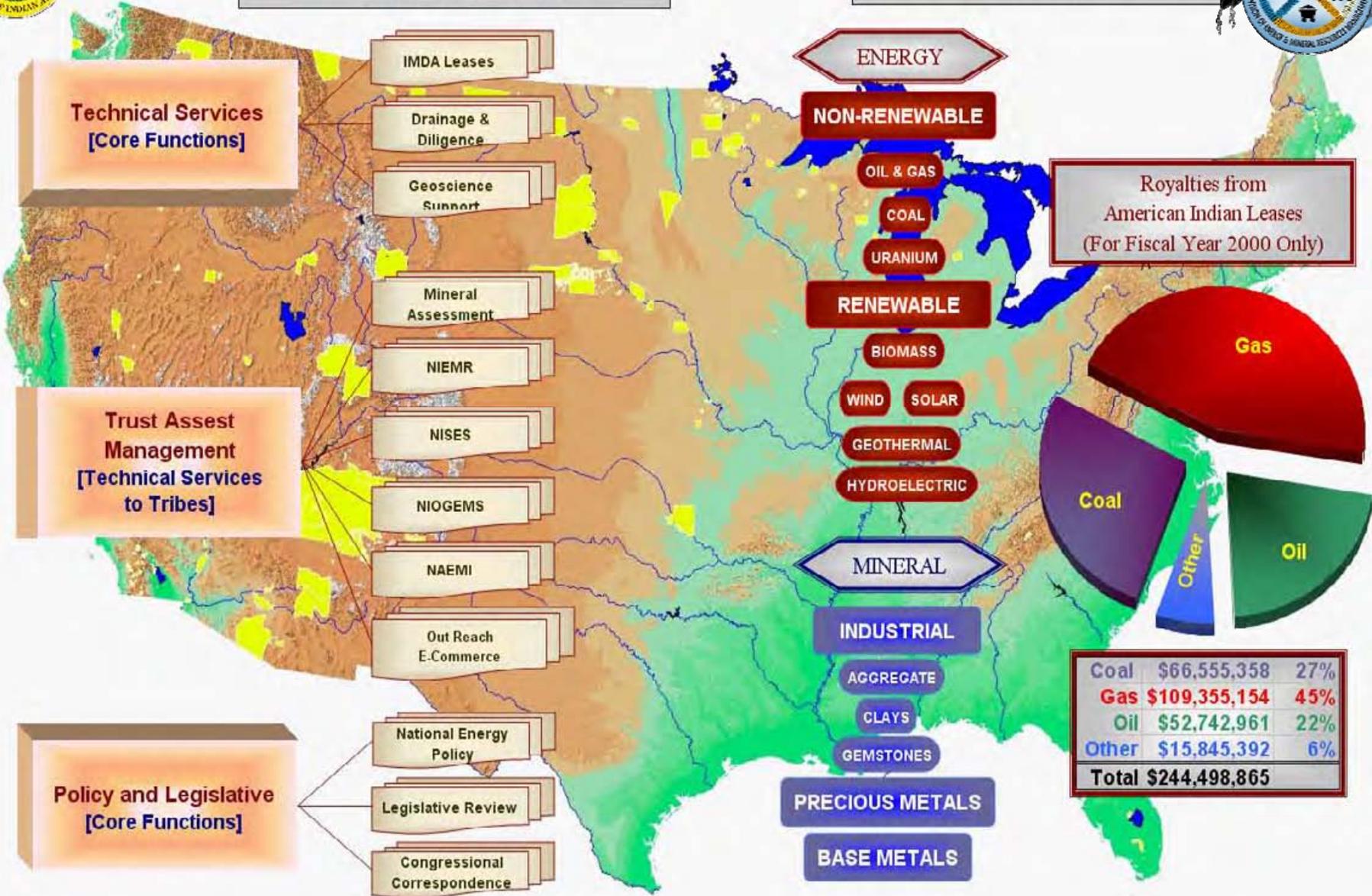
A man in a green shirt and sunglasses is speaking to two women in white shirts in a field. The background shows a vast landscape with green grass and distant hills under a blue sky with scattered clouds. The text is overlaid in large, bold, yellow font.

The programs undertaken by the DEMR reflect these conclusions. The DEMR has established programs that, not only, provide the Tribes with technical data, but also the tools and the training to use and apply this information.



Division of Energy and Mineral Resources Management
PROGRAM FUNCTIONS

Department of the Interior
Bureau of Indian Affairs
Office of Trust Responsibilities



Technical Services
[Core Functions]

- IMDA Leases
- Drainage & Diligence
- Geoscience Support

Trust Asset Management
[Technical Services to Tribes]

- Mineral Assessment
- NIEMR
- NISES
- NIOGEMS
- NAEMI

Policy and Legislative
[Core Functions]

- Out Reach E-Commerce
- National Energy Policy
- Legislative Review
- Congressional Correspondence

ENERGY

NON-RENEWABLE

- OIL & GAS
- COAL
- URANIUM

RENEWABLE

- BIOMASS
- WIND SOLAR
- GEOTHERMAL
- HYDROELECTRIC

MINERAL

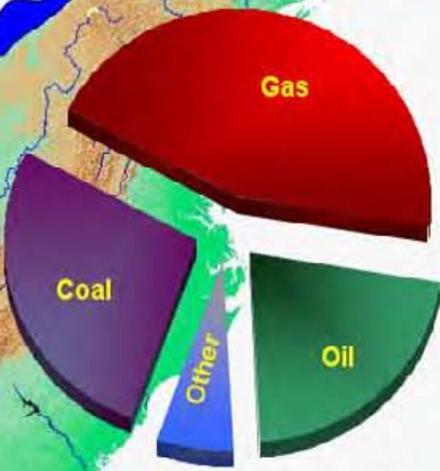
INDUSTRIAL

- AGGREGATE
- CLAYS
- GEMSTONES

PRECIOUS METALS

BASE METALS

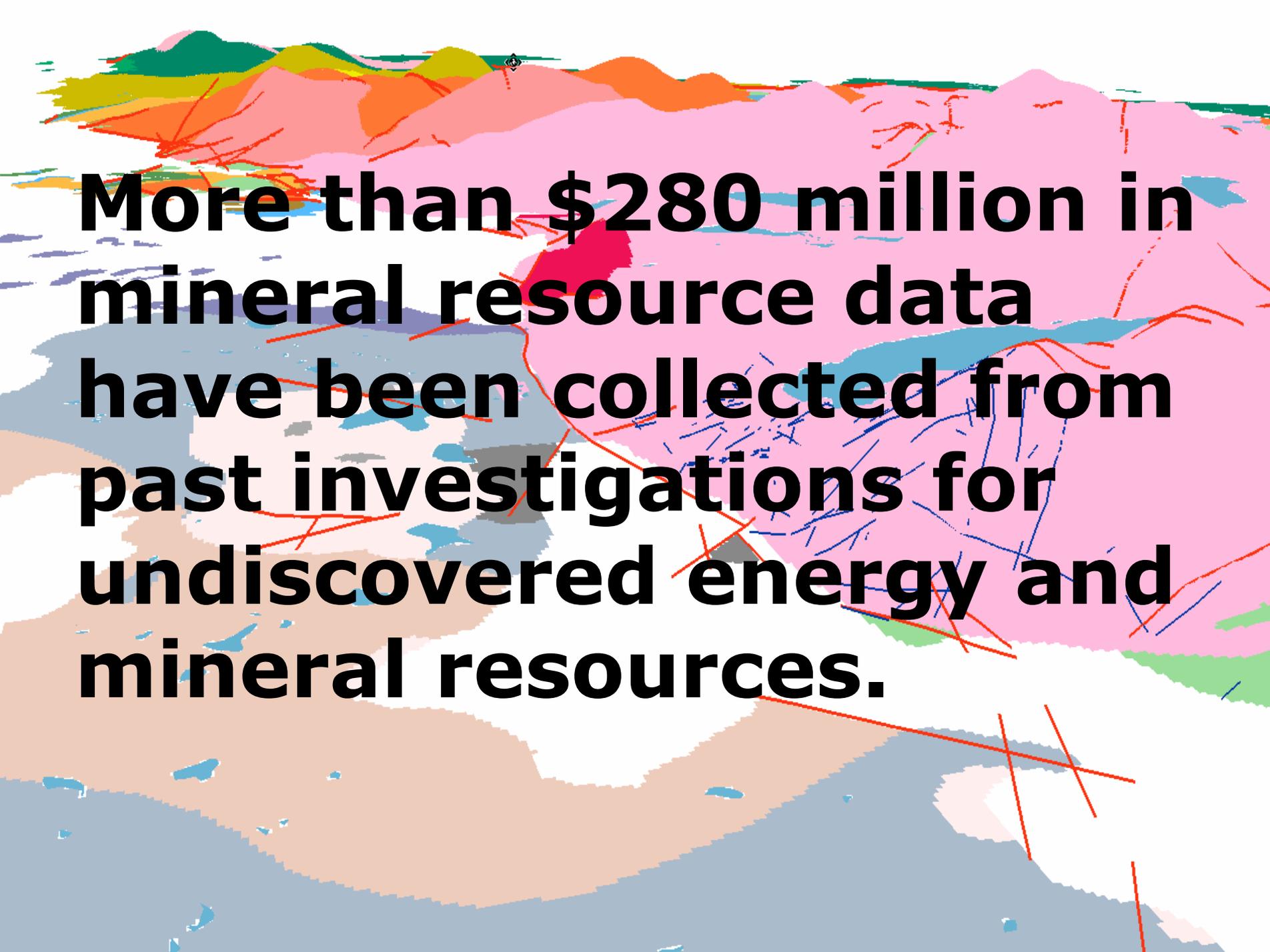
Royalties from American Indian Leases
(For Fiscal Year 2000 Only)



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

National Indian Energy and Mineral Resources Database (NIEMR)

The foundation of any sound management program is reliable and consistent data. The Division developed an automated database, to archive all Indian Energy and Mineral resources, nationwide.

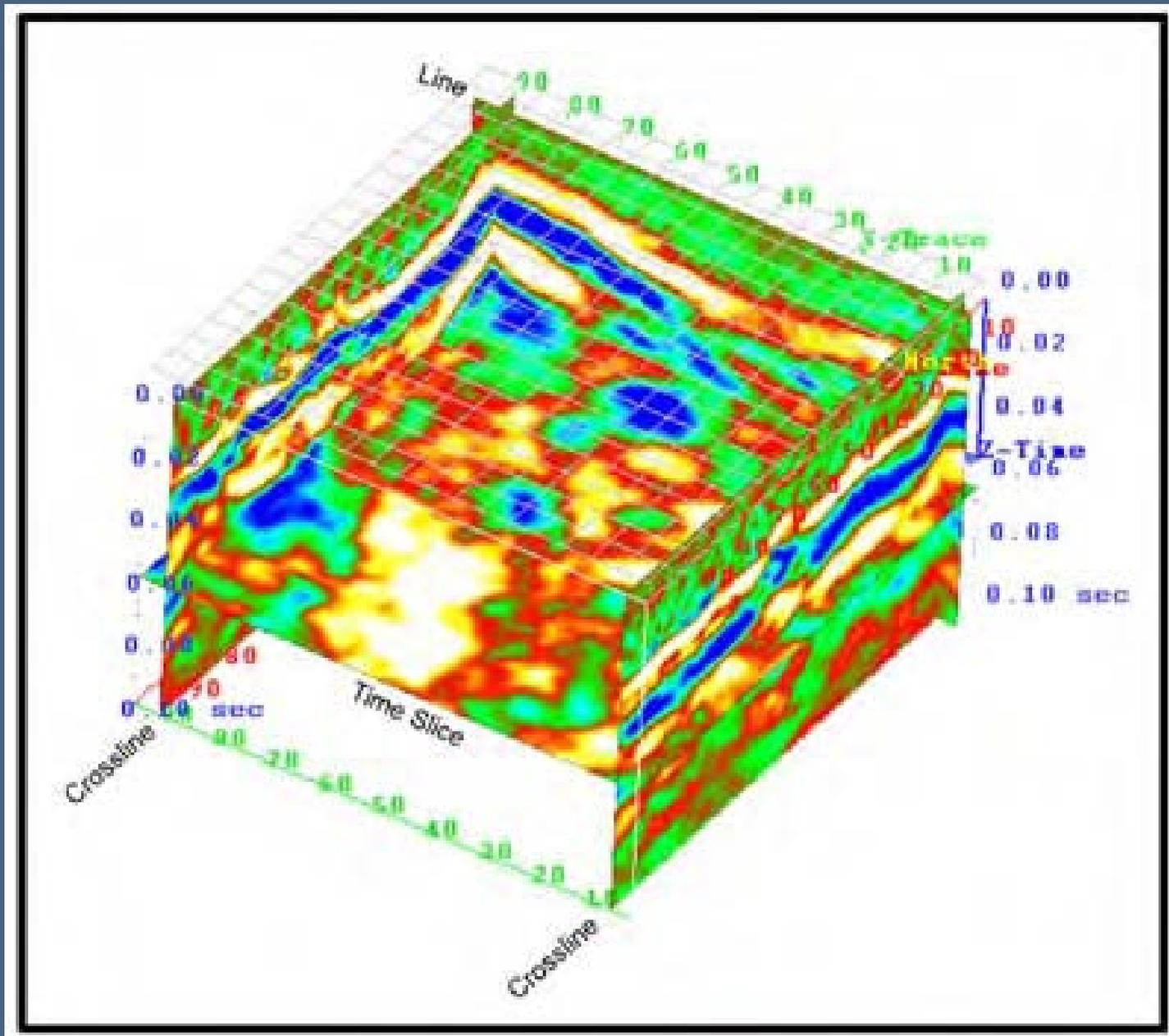


More than \$280 million in mineral resource data have been collected from past investigations for undiscovered energy and mineral resources.



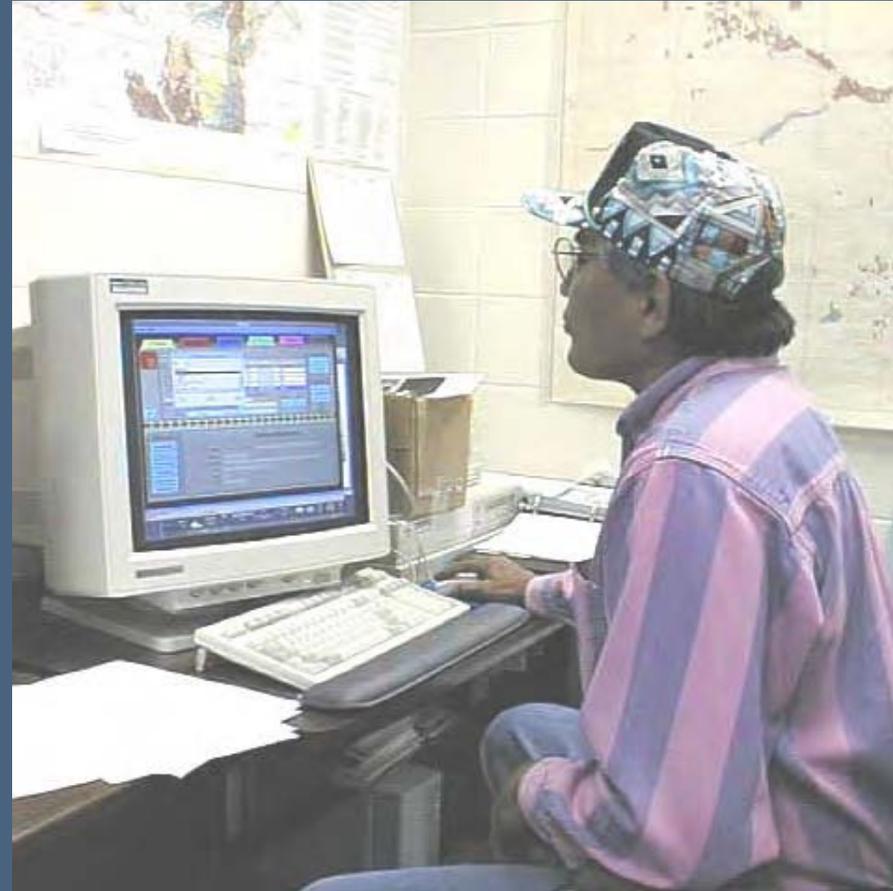
NISES – National Indian Seismic Evaluation System

3D Seismic reflection data cube.



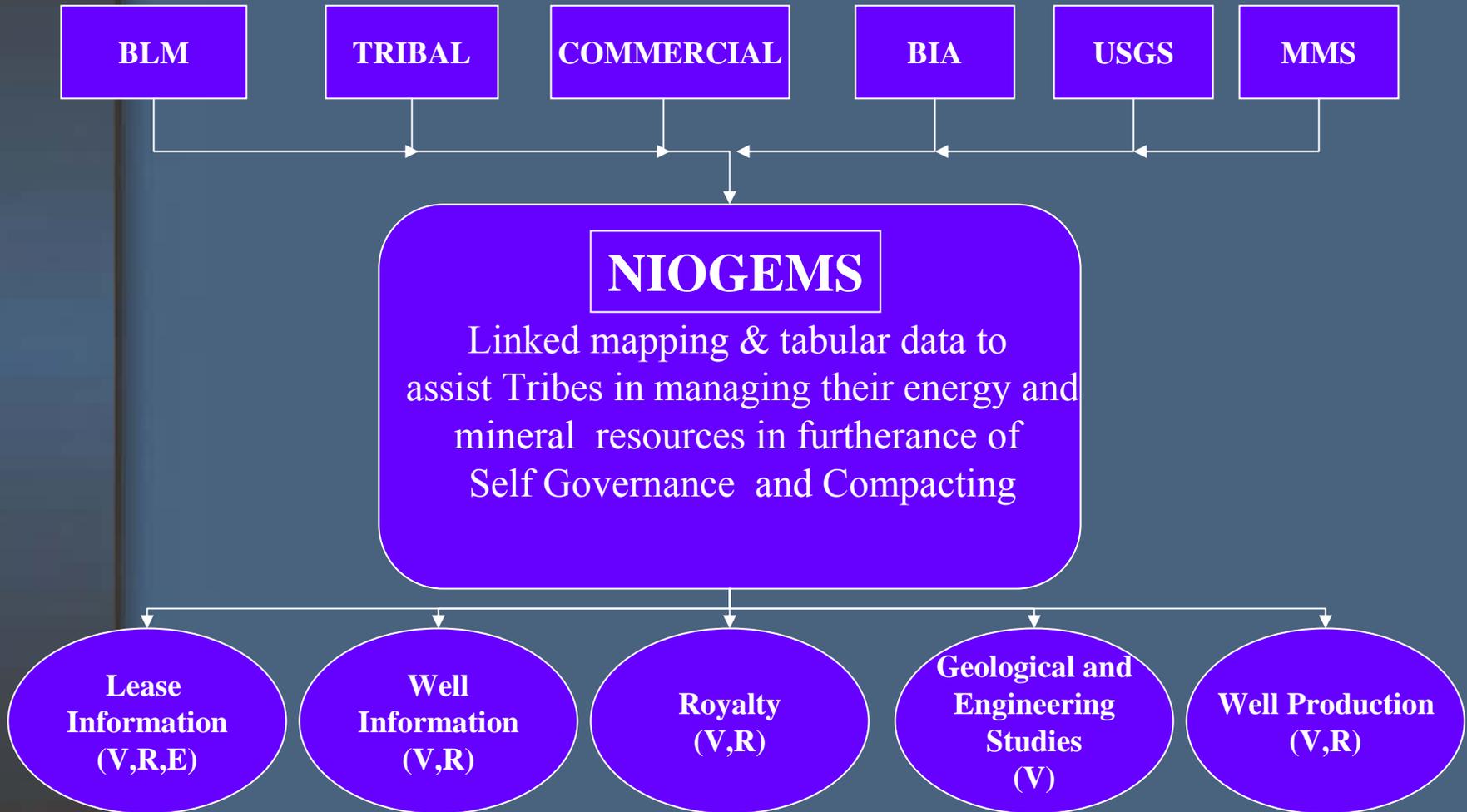
National Indian Oil and Gas Evaluation and Management System (NIOGEMS)

- ❖ Easy-to-use computer based viewer of well, production and lease data in map form.
- ❖ Allows tribal resource managers to monitor energy and mineral resources, production amounts, and lease status.
- ❖ Displays aero-photo and topographic maps to help plan access for new energy and mineral development.



NIOGEMS

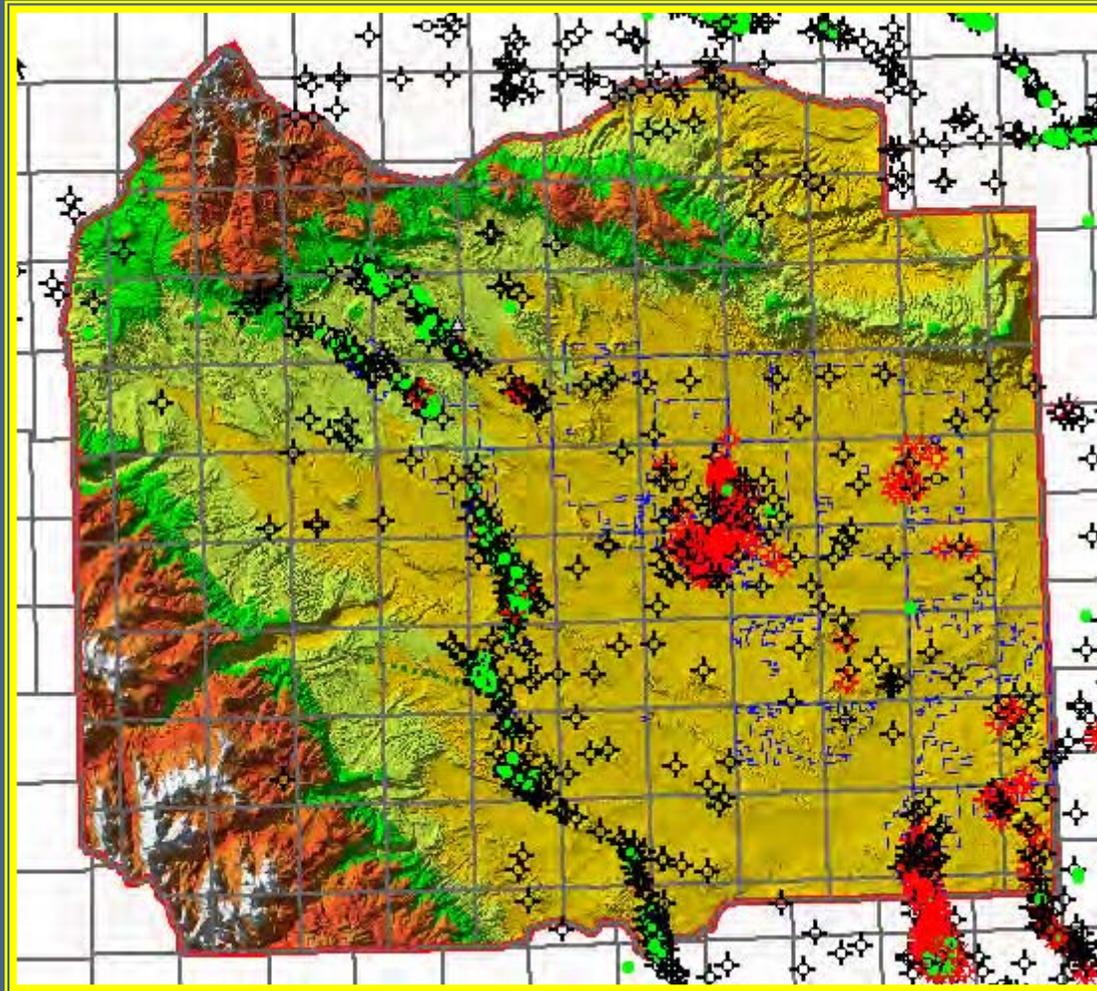
DATA SOURCES



V = VIEW R = REPORT E = EDIT

NIOGEMS

Automated management of energy and mineral resources, lease, and agreement data is essential for Tribes to effectively manage and optimize their resources.



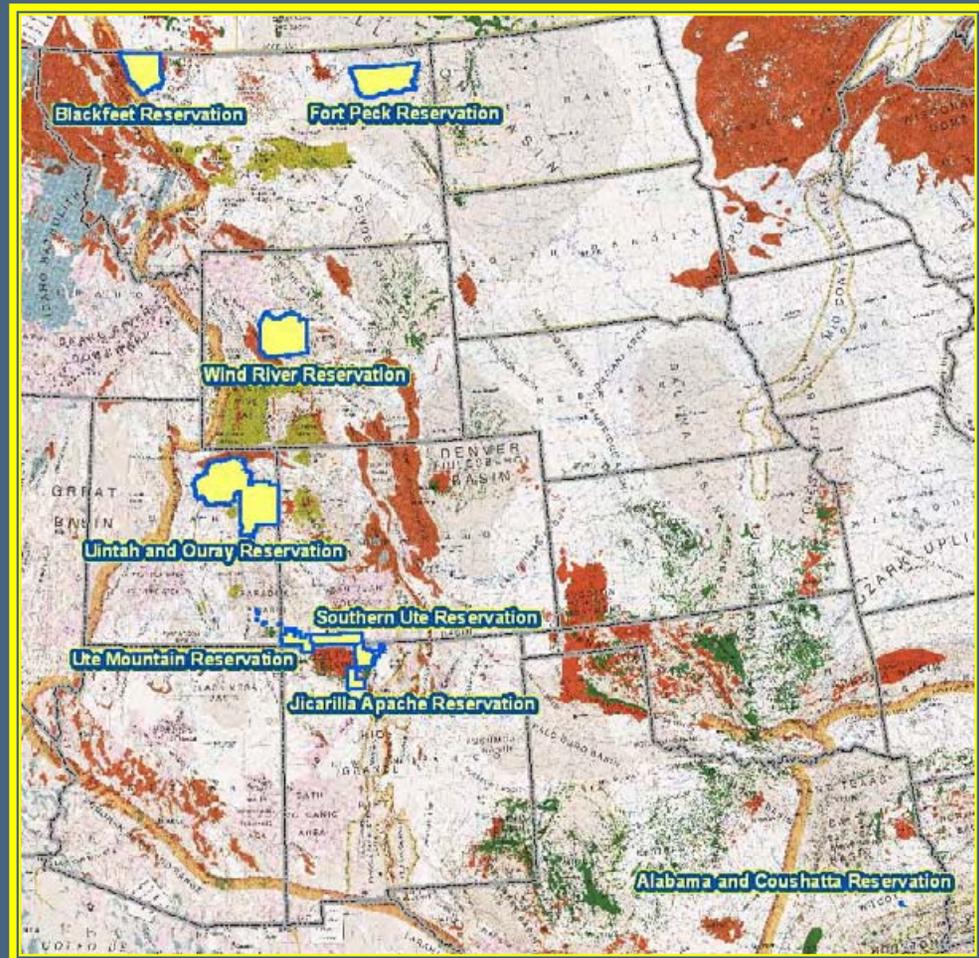
NIOGEMS

Twelve reservation/Agency/Regional office currently hosted NIOGEMS systems.

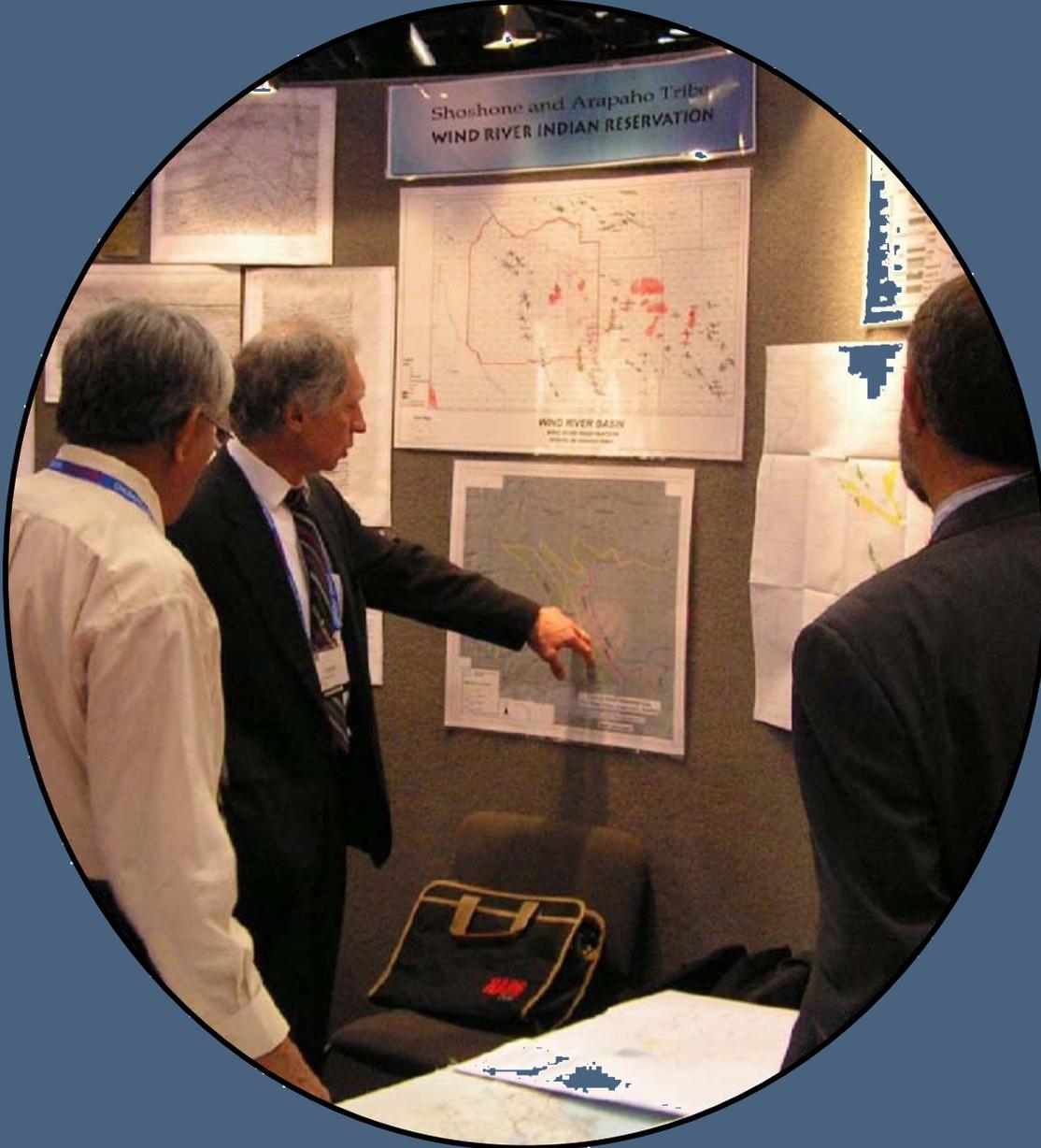
- Blackfeet
- Fort Peck
- Wind River
- Uintah & Ouray
- Southern Ute
- Ute Mountain Ute
- Jicarilla Apache
- Alabama-Coushatta
- Crow
- Rocky Mtn Regional Office
- Fort Berthold
- Rocky Boys

Future Installations

- Navajo
- Southwest Regional Office



Outreach



Goals of the Outreach Program

- ❖ Stimulate industry interest to explore and develop energy and mineral resources on Indian lands
- ❖ Provide tribes an opportunity (by providing financial and technical assistance) to attend national conferences to present results of mineral assessment projects to industry
- ❖ Publish data and results of assessment projects

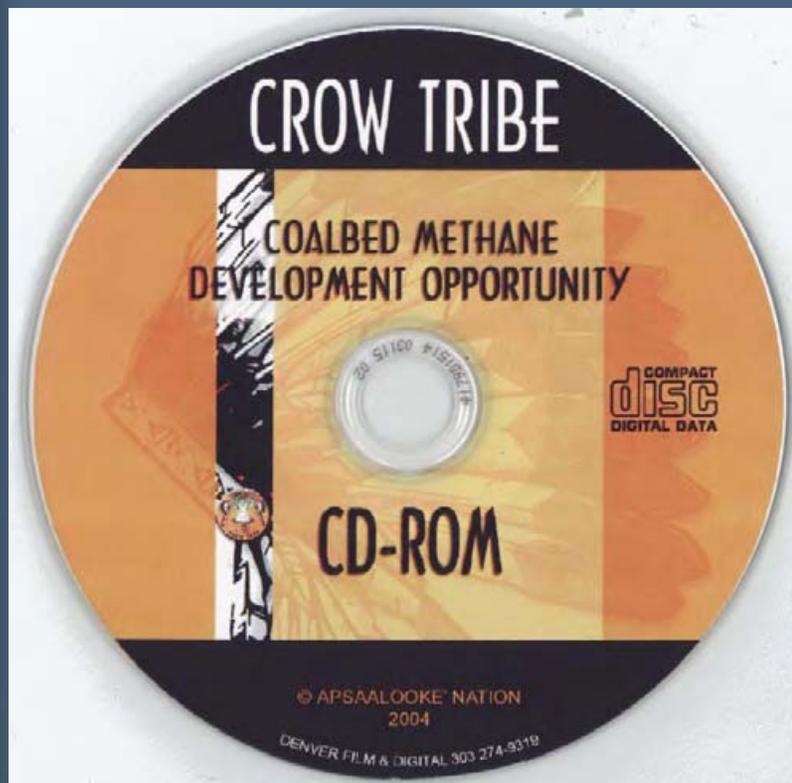
Industry Prospect Expos

NAPE, 2004
Houston, Texas



New technologies are now being used to reach a larger audience at a lower cost.

Shown are covers of two CDs containing video presentations by tribal staff members who discuss oil and gas opportunities on their reservations. The CDs also contain a comprehensive digital library of supporting documents and maps.



**OFFER TO DEVELOP UP TO 500,000 ACRES
OF WILLISTON BASIN OIL AND GAS LANDS**

**FORT BERTHOLD INDIAN RESERVATION, NORTH DAKOTA
Three Affiliated Tribes (Mandan, Hidatsa, Arikara)**

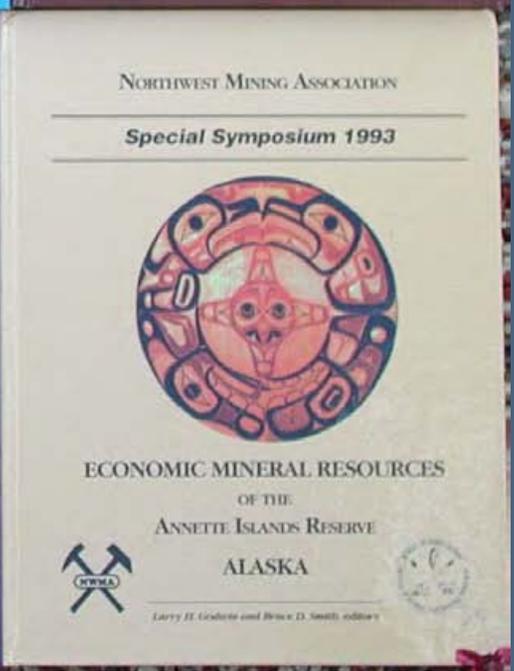
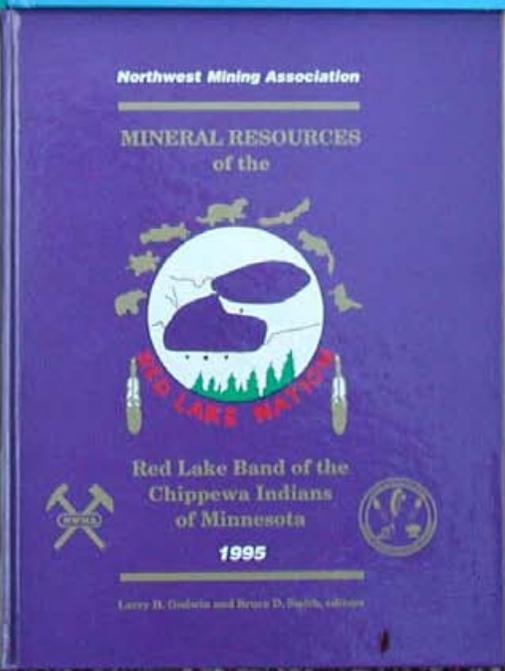
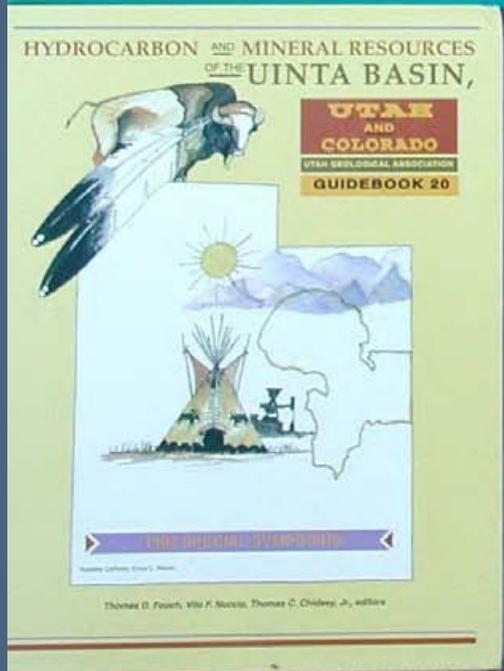
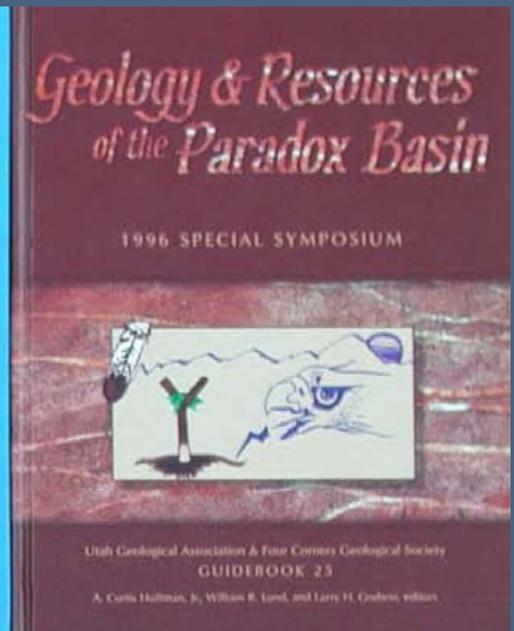
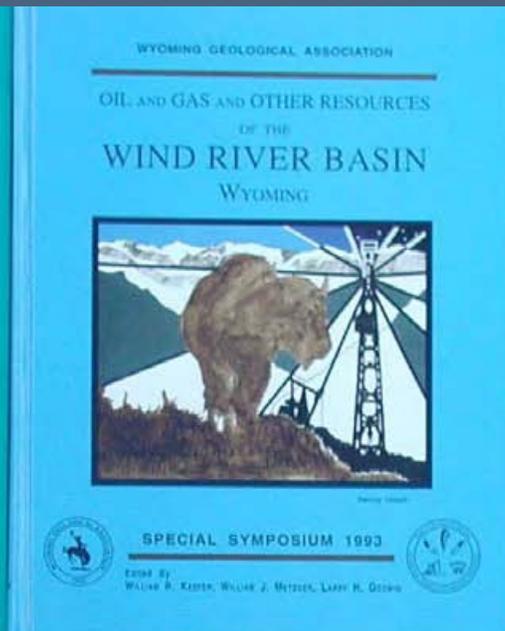
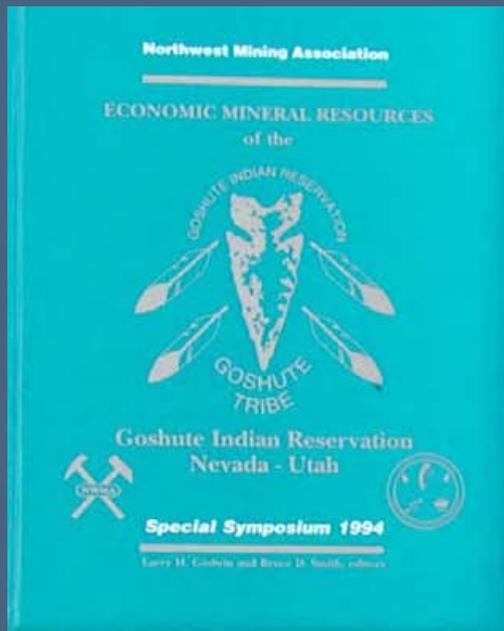
Contents



**Tribal Government
and Members of the
Fort Berthold
Indian Reservation**

- Prologue by Chairman Tex Hall**
- Overview**
- Terms of Proposal**
- Land**
- Production Summary**
- Economics**
- Geology Overview - Play Types**
- Geophysical Data**

Publications



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.

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

Indian Mineral Development Act

25 U.S.C. §§ 2101-08 (1982, as amended)

- ❖ The '82 Act eliminated any restrictions as to the terms of any agreement and left all aspects of the agreement open to negotiation, such as joint operations, production sharing, working interests, etc.
- ❖ Agreements may be entered into for the exploration and development of oil, gas, uranium, coal, geothermal or other energy or non-energy mineral resources.
- ❖ Under an IMDA, the United States is not liable for losses sustained by a Tribe or individual Indian under such an agreement
- ❖ The Secretary continues to have a trust responsibility to ensure that the rights of a tribe or individual Indian are protected.
- ❖ Currently, the trend is for all new agreements to be IMDA agreements.

Tribal options for energy and mineral development:

- **Leasing**
- **Joint Venture**
- **Tribally Operated**



Mineral Assessment Program



Mineral Assessment Program

Provide financial support, through a competitive 638 contract process, for the following types of activities:

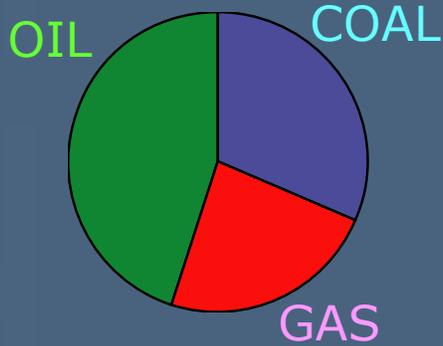
- a) Perform assessment studies of the energy and mineral resource potential on Indian trust lands.
- b) Provide economic evaluations of energy and mineral resources to Indian mineral owners.
- c) Provide studies on current and projected market conditions.
- d) Provide technical advice on geology, geophysics, petroleum and mining engineering, renewable energy design and engineering.
- e) Promote development on Indian lands by attending conferences, property fairs, and publishing results.

Indian Resource Potential

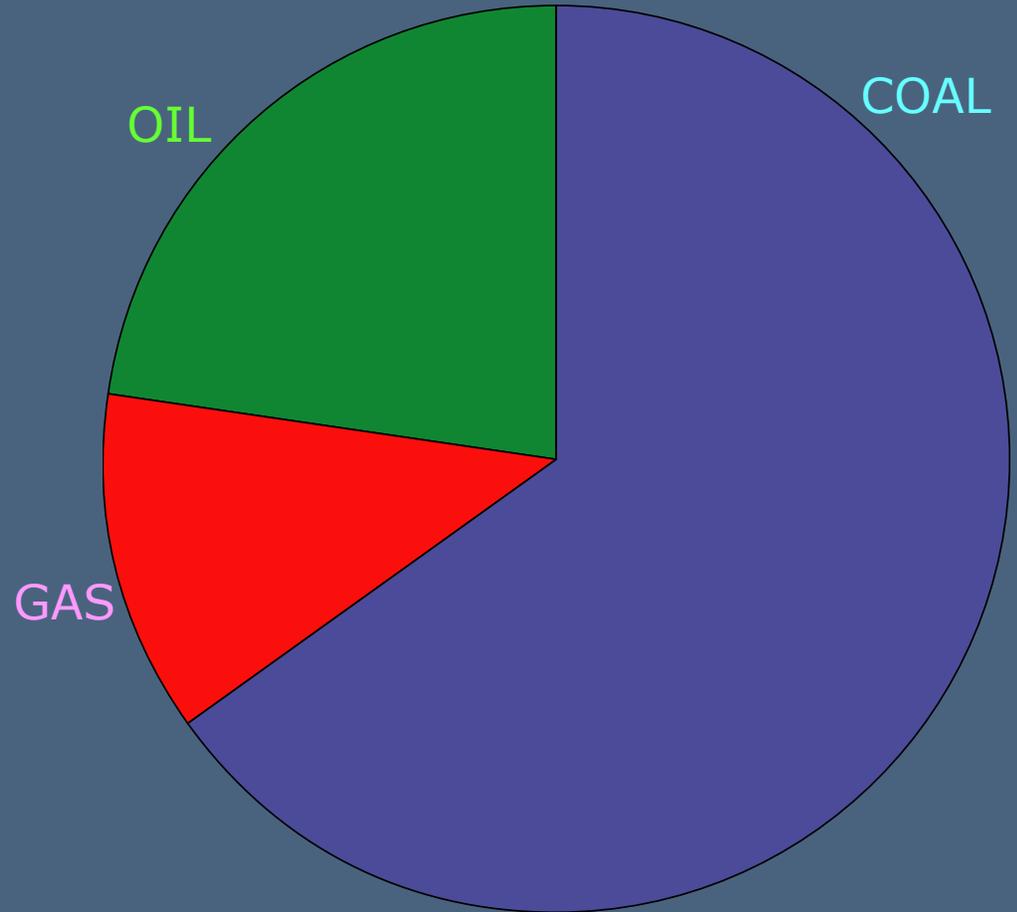


OIL, GAS, AND COAL RESOURCES ON INDIAN LANDS

Lower 48 States Only



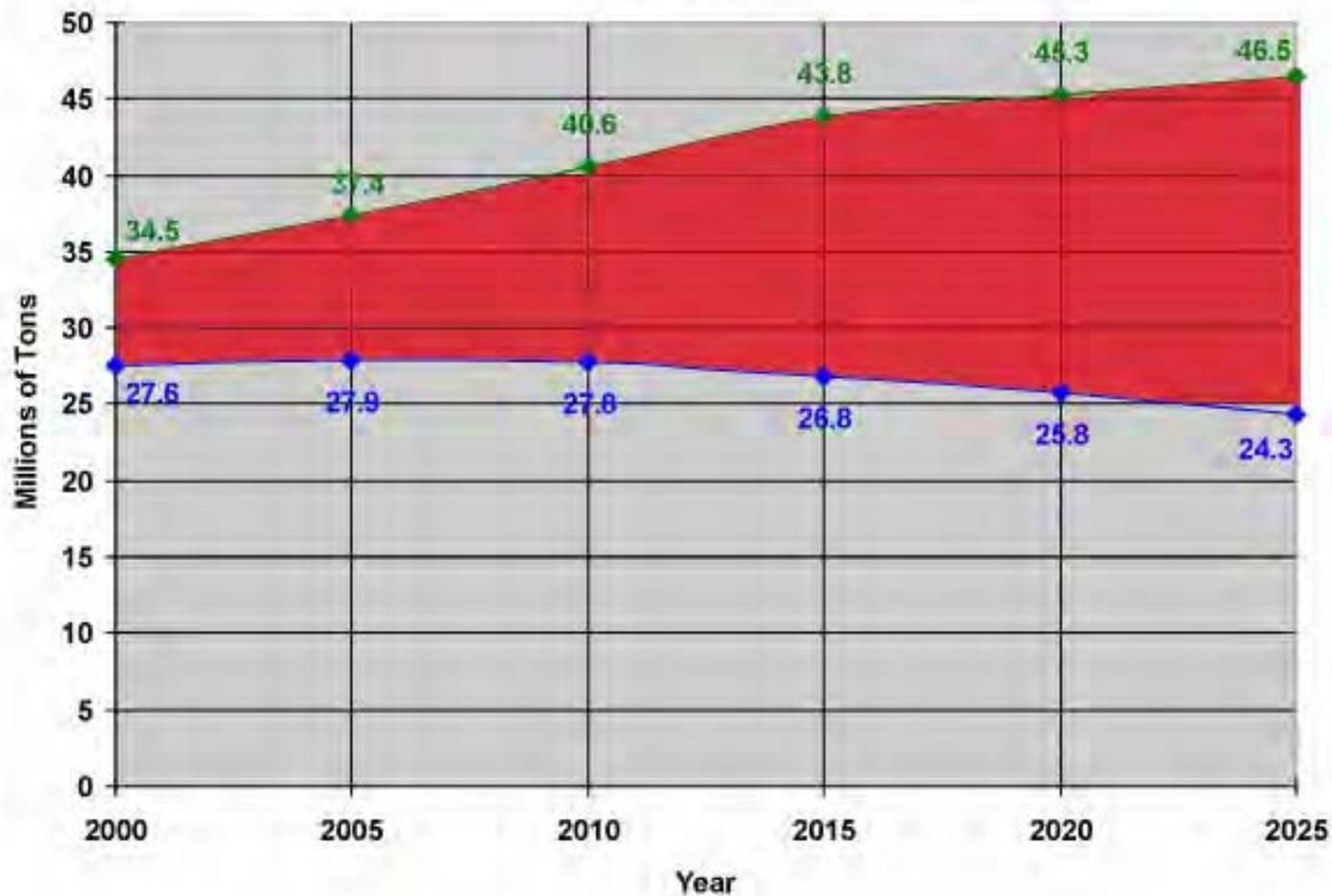
Historic
Cumulative
Production



Undiscovered Reserves and
Undiscovered Resources

Aggregate Consumption/Production - San Francisco Bay Area

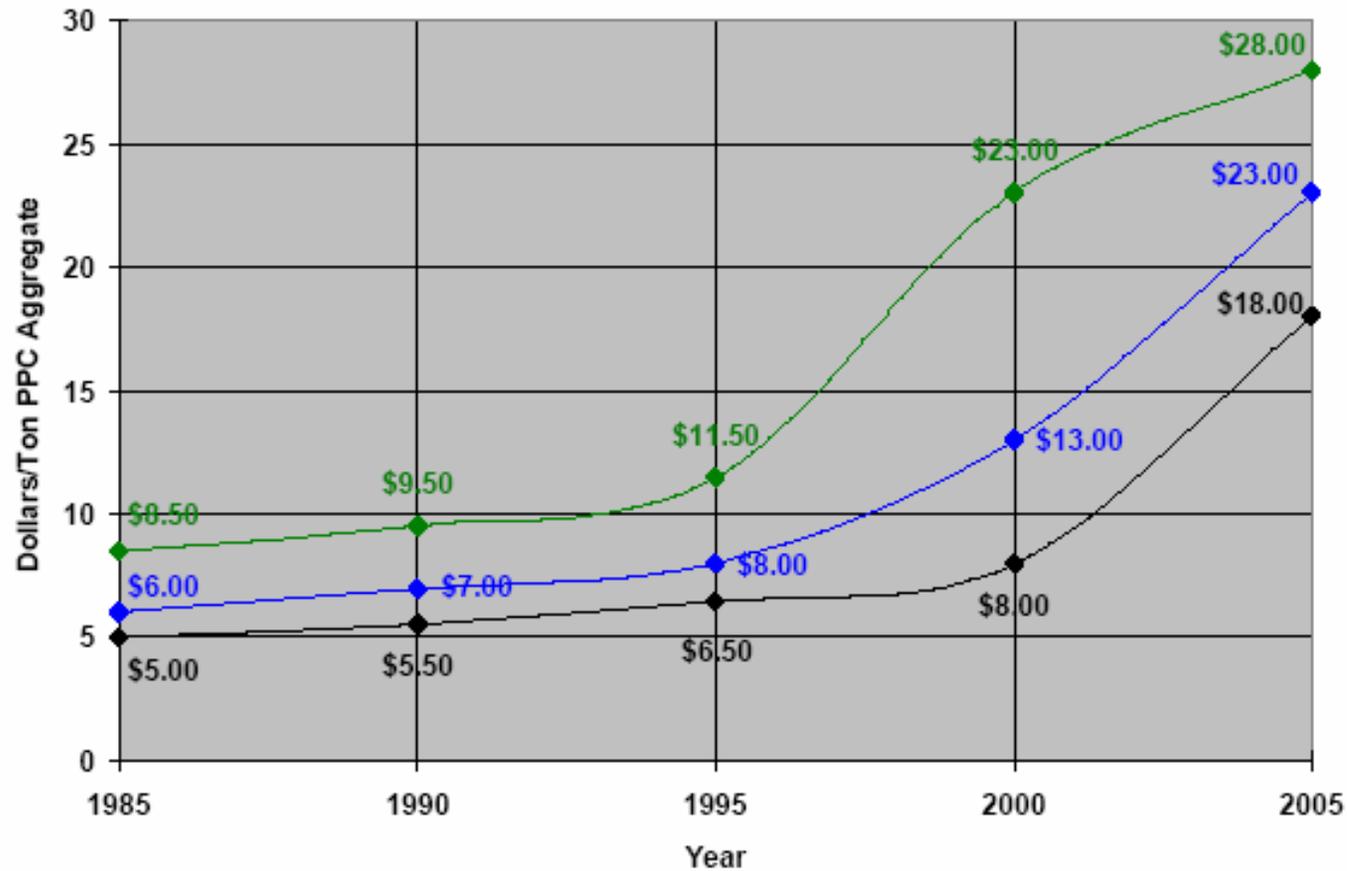
(2000-2025)



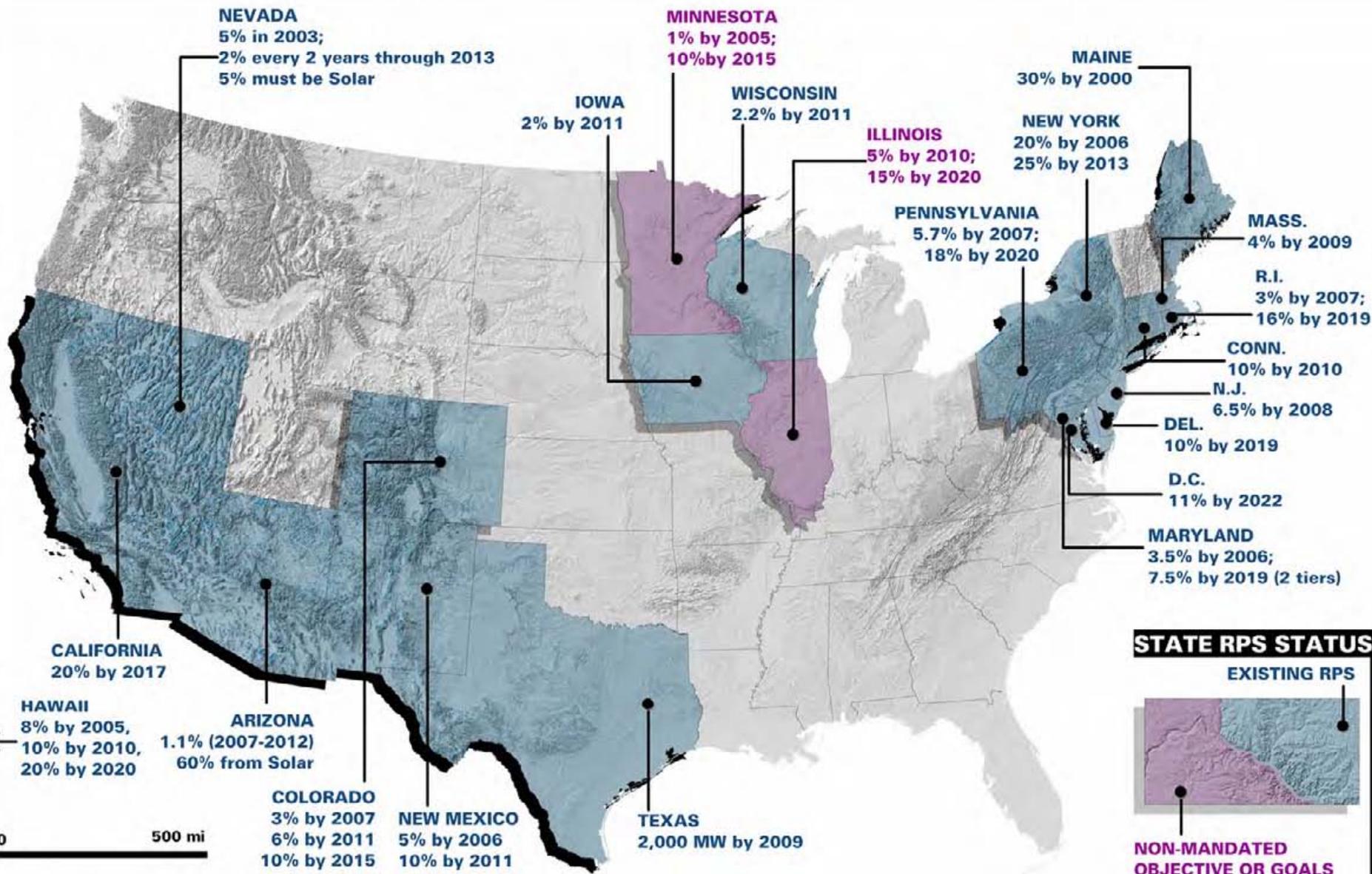
Consumption Production

Aggregate Price Trends in Core Areas of California Cities

(2000-2025)



- ◆ San Francisco
- ◆ San Diego
- ◆ Los Angeles



STATE RPS STATUS

EXISTING RPS



NON-MANDATED
OBJECTIVE OR GOALS

0 500 mi



Assistant Secretary-Indian Affairs:

Division of Energy and Mineral Development

12136 W. Bayaud Ave Suite 300

Lakewood, Colorado 80228

We Would Like to Thank Our Sponsors

Department of Energy; Tribal Energy Program

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Golden, Colorado 80401



Colorado School of Mines:

Department of Continuing Education

1600 Arapahoe St
Golden, Colorado 80401



National Renewable Energy Laboratory

1617 Cole Boulevard
Golden, Colorado 80401



U.S. Department of the Interior

Bureau of Indian Affairs - Division of Forestry

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Washington, DC 20240

