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Assistant Secretary Indian Affairs:  
Office of Indian Energy and Economic Development:  
**Division of Energy and Mineral  
Development**

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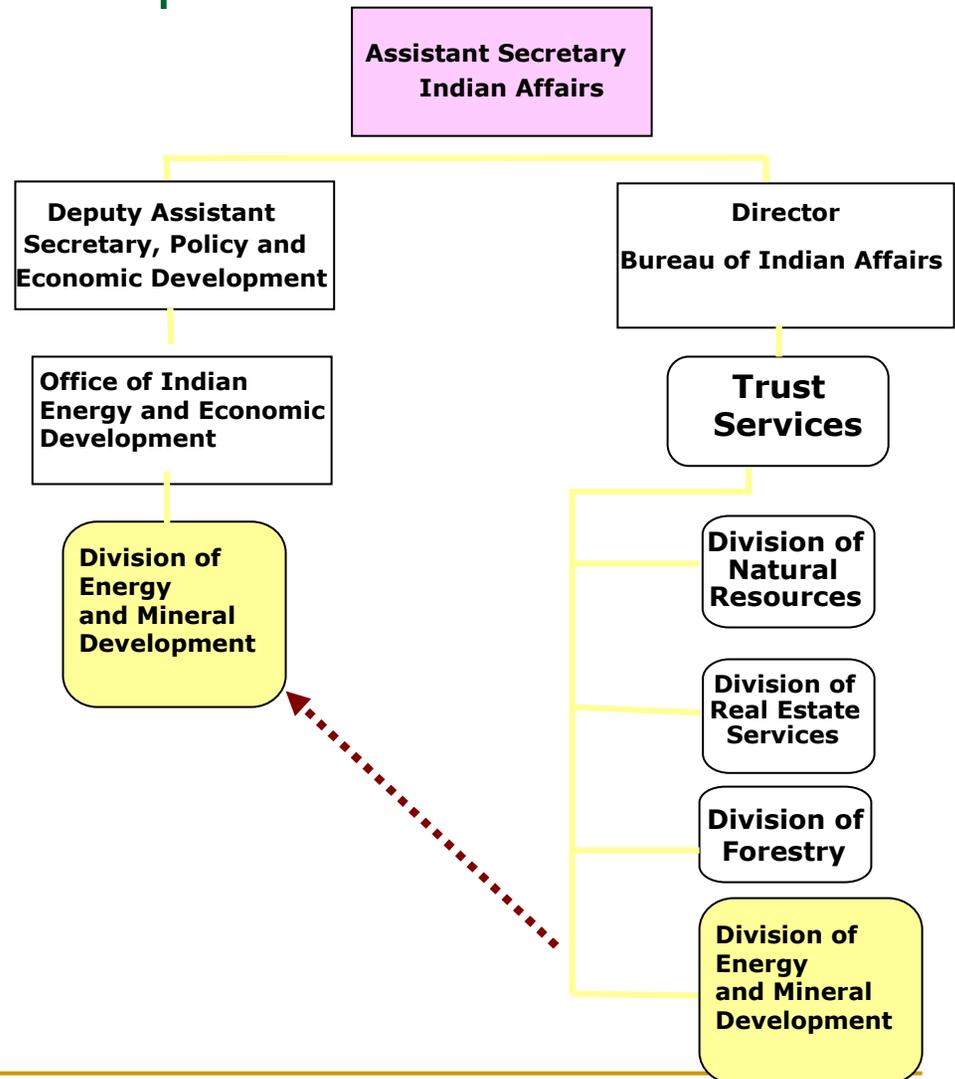
How DEMD can assist with renewable  
energy projects on Tribal lands



# Reassignment of the Division 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



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# 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.
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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]

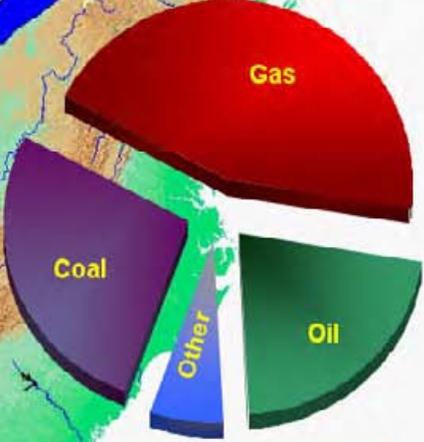
**Trust Asset Management**  
[Technical Services to Tribes]

**Policy and Legislative**  
[Core Functions]

- IMDA Leases
- Drainage & Diligence
- Geoscience Support
- Mineral Assessment
- NIEMR
- NISES
- NIOGEMS
- NAEMI
- 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%
<b>Gas</b>	<b>\$109,355,154</b>	<b>45%</b>
Oil	\$52,742,961	22%
Other	\$15,845,392	6%
<b>Total</b>	<b>\$244,498,865</b>	

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# Expansion of Staff and Capabilities

## ■ Prior to August 2003

- ❑ Three technical staff members in Fluid and Solid Group
- ❑ MAP funding below \$1 million, as low as \$200,000
- ❑ Limited ability to work on tribal projects

## ■ July 2006

- ❑ Over twenty technical staff members in the Fluid, Solid, Renewable and IT Groups
  - ❑ MAP funding at \$3.1 million
  - ❑ Significant increase in numbers of tribal projects
  - ❑ Ability to interact more closely with tribes
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# Mineral Assessment Program



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# Mineral Assessment Program

- Provide economic evaluations of energy and mineral resources to Indian mineral owners as requested.
  - Provide studies on the current and projected energy and mineral market conditions.
  - Provide expert technical advice in geology, mining engineering, renewable energy resource assessments, design and engineering, petroleum engineering, and geophysics to Indian mineral owners.
  - Provide expert technical advice to the Indian mineral owners on IMDA agreements.
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# Services available through our Division to assist with renewable energy projects:

- **Regional Resource Assessments**

1. Wind
2. Biomass
3. Solar
4. Hydro

- **System Scale Assessment**

1. Stand Alone vs. Commercial

- **Economic Comparisons**

1. Conventional vs. Renewable
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# DEMD Services cont:

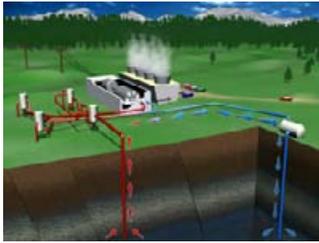
- Review of Available Technology
- Guidance with Technology Selection
- Assistance with:
  1. Business Leases\*
  2. Transmission Studies\*
  3. Bat and Avian Studies
  4. Market Studies\*

\* if commercial scale resources are proven

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# Renewable Technology Options

## Heat Pumps



## Small Modular Power



## PV- Remote Homes



## Process Heat



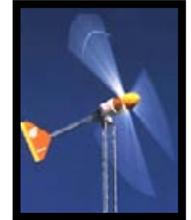
## Buildings



## Diesel Hybrids



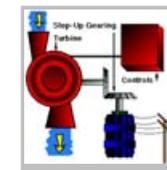
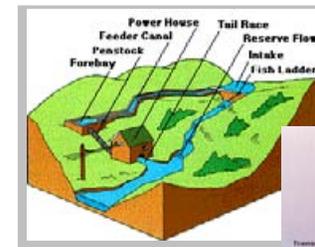
## Small Wind

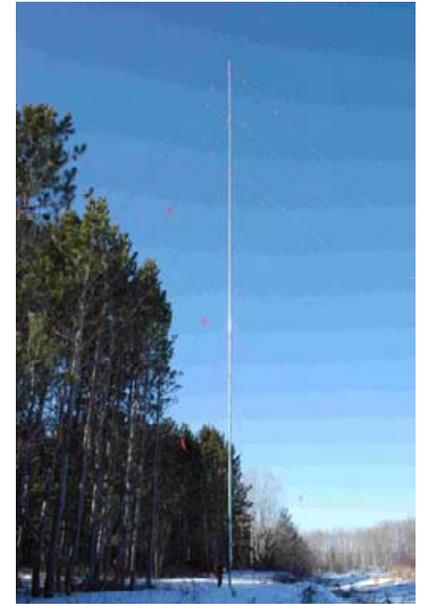


## Big Wind



## Small Hydro





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