

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



## Division of Energy and Mineral Development

DOE Energy Efficiency & Renewable Energy  
Tribal Energy Program  
November 14<sup>th</sup>, 2011  
Winter Jojola-Talburt, Electrical Engineer



# Assistant Secretary – Indian Affairs

(Larry Echo Hawk)

## Principal Deputy – Assistant Secretary

(Del Laverdure)

Director  
Bureau of Indian Affairs

Director  
Bureau of Indian Education

Deputy Assistant Secretary  
Policy and Economic  
Development (Jodi Gillette)

Deputy Assistant  
Secretary Management

Office of Self-  
Governance

Office of Indian Energy  
and Economic Development

Office of Indian  
Gaming

Division of Energy and  
Mineral Development

Division of Economic  
Development

Division of Workforce  
Development

Division of Capital  
Investment

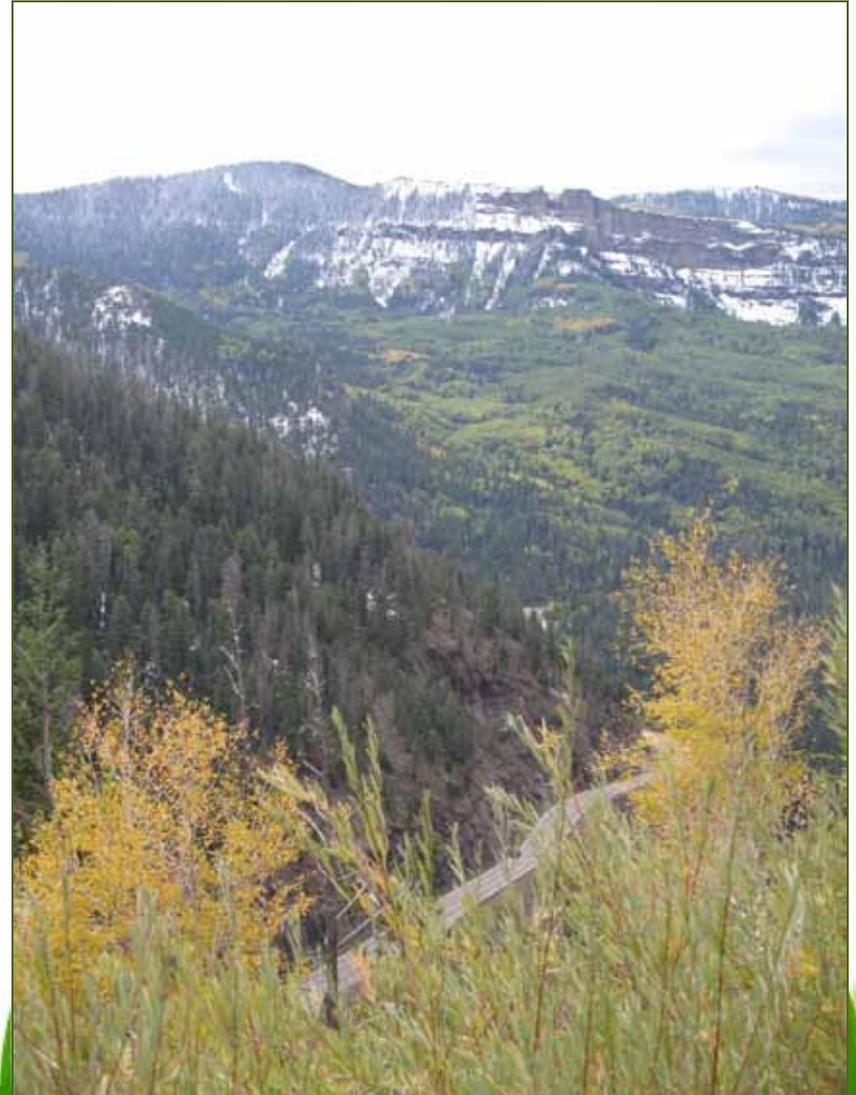


# We're Moving Our Office...

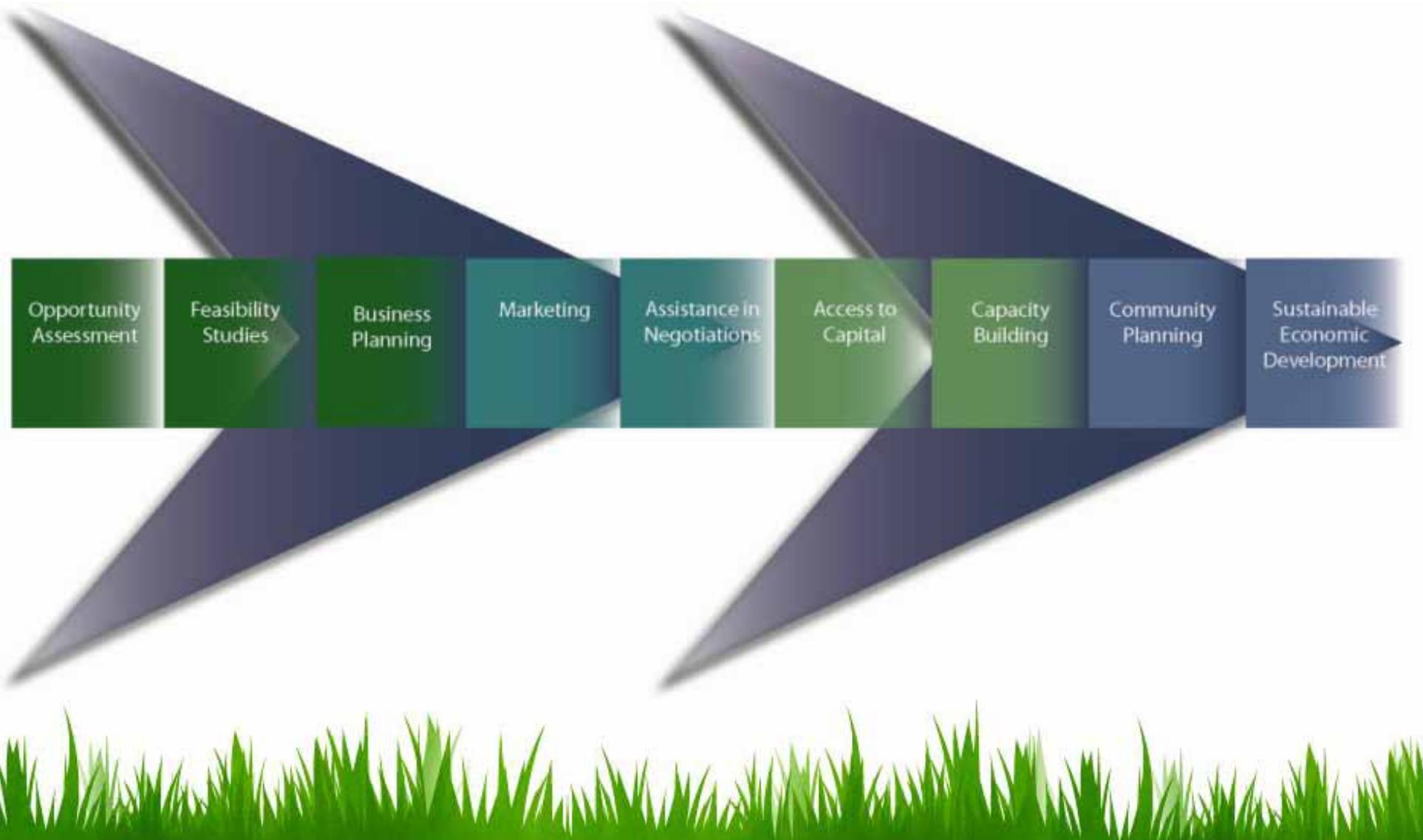
Week of November 28th

13922 Denver West Parkway, Suite  
200

Lakewood, CO 80401



# Office of Indian Energy and Economic Development (IEED) Technical Assistance



# Division of Energy and Mineral Development (DEMD)

- DEMD provides technical services to the Indian mineral owner and the BIA
- Primary goal: provide the best possible geotechnical, engineering, and economic advice to Indian landowners seeking to manage and develop their energy and mineral trust resources



# Division of Energy and Mineral Development (DEMD) Renewable Energy Group



- Staff
  - Winter Jojola-Talburt, Electrical Engineer
  - Amanda John, Architectural Engineer
  - Roger Knight, Petroleum Engineer
  - Jenny Reimann, Civil Engineer
  - Richard Waissar, Mining Engineer (not pictured)

# Renewable Energy Vision

Grouped by main objective

- Community Scale
  - Saving energy/money
- Industrial Scale
  - Use directly
  - Added Value
  - Job creation
- Utility Scale
  - Energy sales



# Community Scale Crow Nation – Compressed Earth Block Housing Project

<http://goodearthlodges.crowtribe.com/>

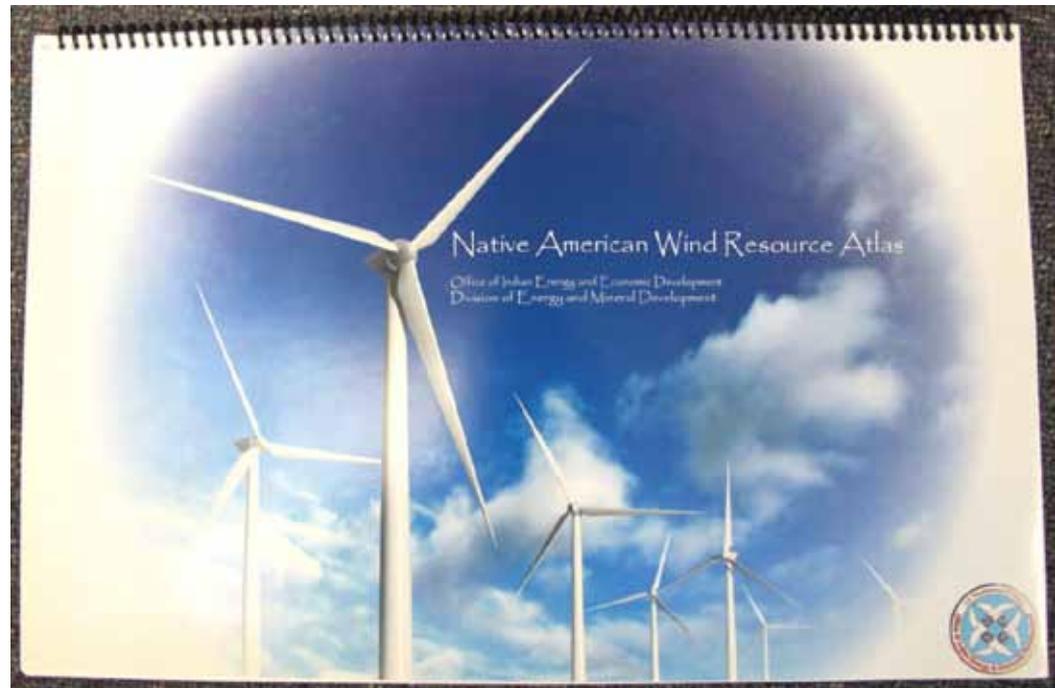


# Utility Scale American Indian Wind Atlas



Objective:

Assist Tribes in the promotion of their lands for commercial wind development



# Utility Scale American Indian Wind Atlas – What's in it?

- General text on the Reservation and Tribe
- Publicly available
  - Reservation boundary
  - Wind resource
  - Existing transmission lines
  - Digital elevation model
  - Location map
  - Contact information
- Proprietary
  - Only included at the request of the Tribe
  - Project specific information

## Fort Berthold Reservation

**Location and Climate**

The reservation is located in northeastern North Dakota, about 100 miles north of Grand Forks, North Dakota. The reservation is situated on the northern edge of the Great Plains, between the Red River and the Missouri River. The reservation is situated on the northern edge of the Great Plains, between the Red River and the Missouri River. The reservation is situated on the northern edge of the Great Plains, between the Red River and the Missouri River.

**Wind Potential**

The reservation has a wind potential of about 20,000 megawatts (MW) of wind energy. The reservation has a wind potential of about 20,000 megawatts (MW) of wind energy. The reservation has a wind potential of about 20,000 megawatts (MW) of wind energy.

**North Dakota**

**Renewable and Expanded Energy Objectives**

The state of North Dakota has ambitious renewable energy objectives. The state of North Dakota has ambitious renewable energy objectives. The state of North Dakota has ambitious renewable energy objectives.



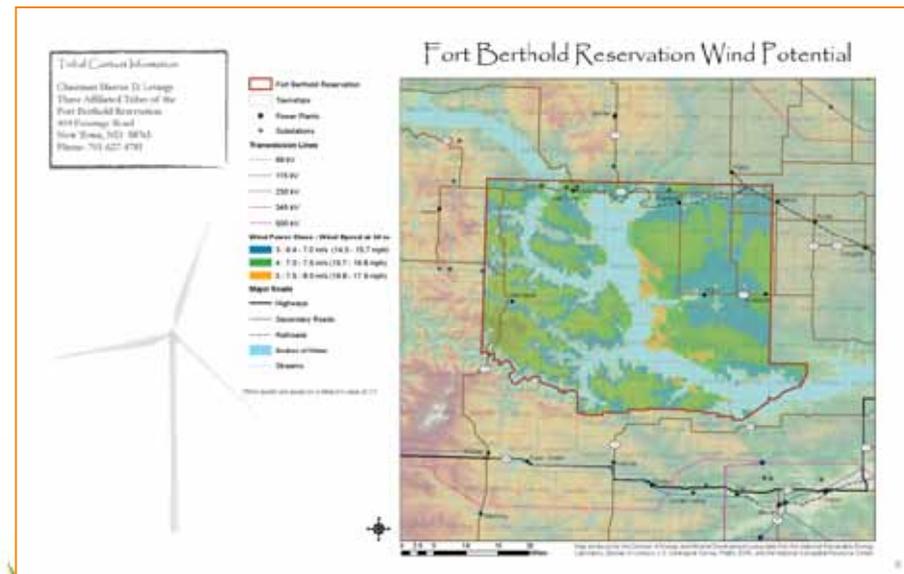
**Wind Resource**

The reservation has a wind resource of about 20,000 megawatts (MW) of wind energy. The reservation has a wind resource of about 20,000 megawatts (MW) of wind energy. The reservation has a wind resource of about 20,000 megawatts (MW) of wind energy.

**Reservation Location Map**







# Industrial Scale Oneida Seven Generations Corporation – Energy Recovery Facility



- 5 MW power plant,
  - 150 tons/day MSW
- Pyrolysis/Gasification
- Recycling
- 30 Full time jobs
- 11/10/2011 – FONSI!

# Industrial Scale Oneida Seven Generations Corporation – Energy Recovery Facility



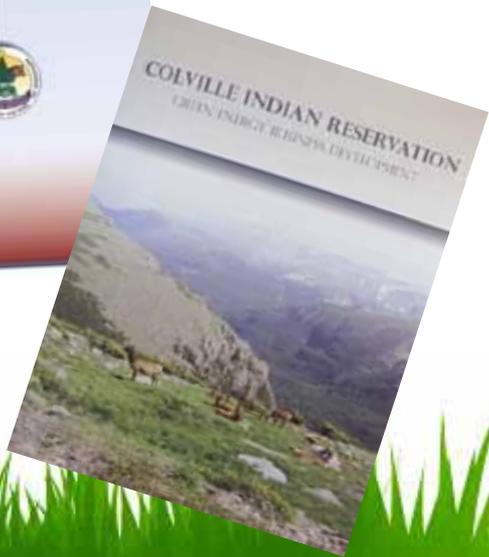
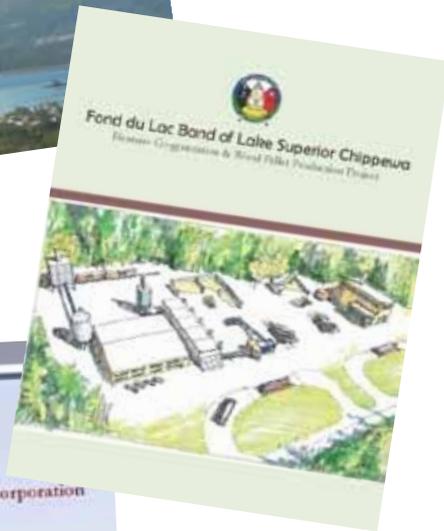
**Feasibility Studies:**  
EMDP Funding  
Division of Energy &  
Mineral Development

**Marketing:**  
Brochure Development  
Division of Energy &  
Mineral Development

**Access to Capital:**  
Guaranteed Loan  
Division of Capital Investment

# Industrial Scale DEMD Assistance

- Resource determination
- Marketing brochure development
  - Oneida Seven Generations Corporation
  - Colville Confederated Tribes
  - Fond du Lac Band
  - Metlakatla Indian Community
- Connect a Tribe with a company that fits the Tribe's business model



# Other IEED Divisions Contact Information

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- **Division of Work Force Development**
  - Francis Dunne, Acting Division Chief  
202-219-5270
- **Division of Economic Development**
  - Jack Stevens, Division Chief  
202-208-6764
- **Division of Capital Investment**
  - Philip Viles, Division Chief  
202-513-7637



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