

**U.S. DEPARTMENT OF ENERGY  
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY**

# **TRIBAL ENERGY PROGRAM**



**FY2003 Program and Project Review Meeting**

**November 17, 2003**

**Lizana Pierce**

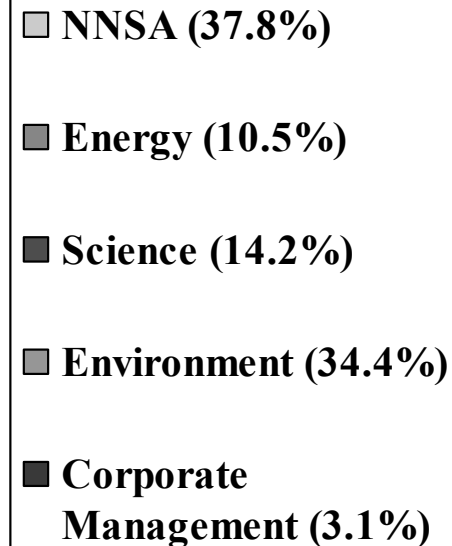
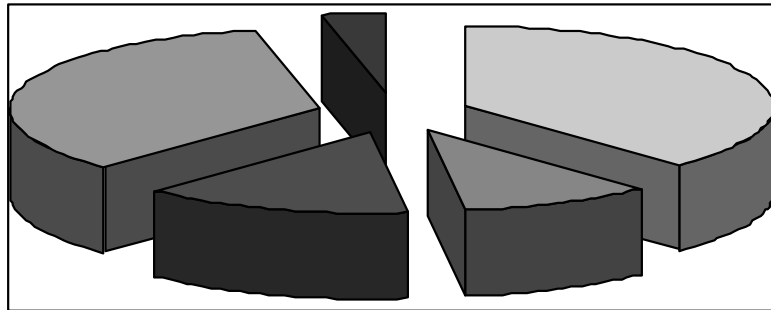
**DOE, Golden Field Office**



# Department of Energy

Advancing Energy and National Security through  
Science, Technology and Environmental Stewardship

## DOE Budget of \$23.4 Billion



### Energy (\$2.45 Billion) includes:

- **Energy Efficiency and Renewable Energy (\$1.3)**
- **Fossil Energy (\$0.75)**
- **Nuclear Energy, Science and Technology (\$0.38)**





**DOE's Office of Energy Efficiency and Renewable Energy (EERE)**

## **EERE's Mission**

**The EERE's mission is to strengthen America's energy security, environmental quality, and economic vitality in public-private partnerships that:**

- Enhance energy efficiency and productivity;
- Bring clean, reliable and affordable energy technologies to the marketplace; and
- Make a difference in the everyday lives of Americans by enhancing their energy choices and their quality of life.

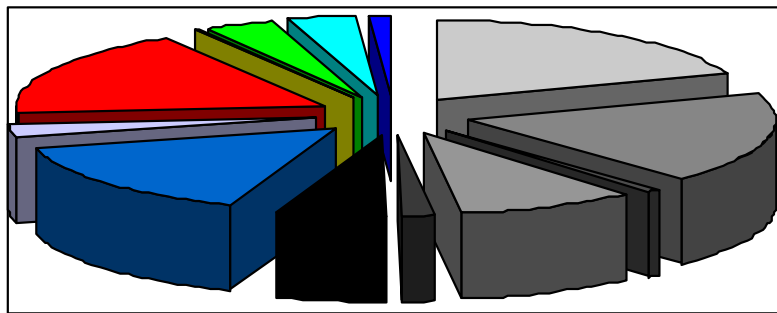




# DOE's Office of Energy Efficiency and Renewable Energy

## \$1.3 Billion Total EERE Budget Request (FY2004)

### Energy & Water Development Request \$444.2 Million

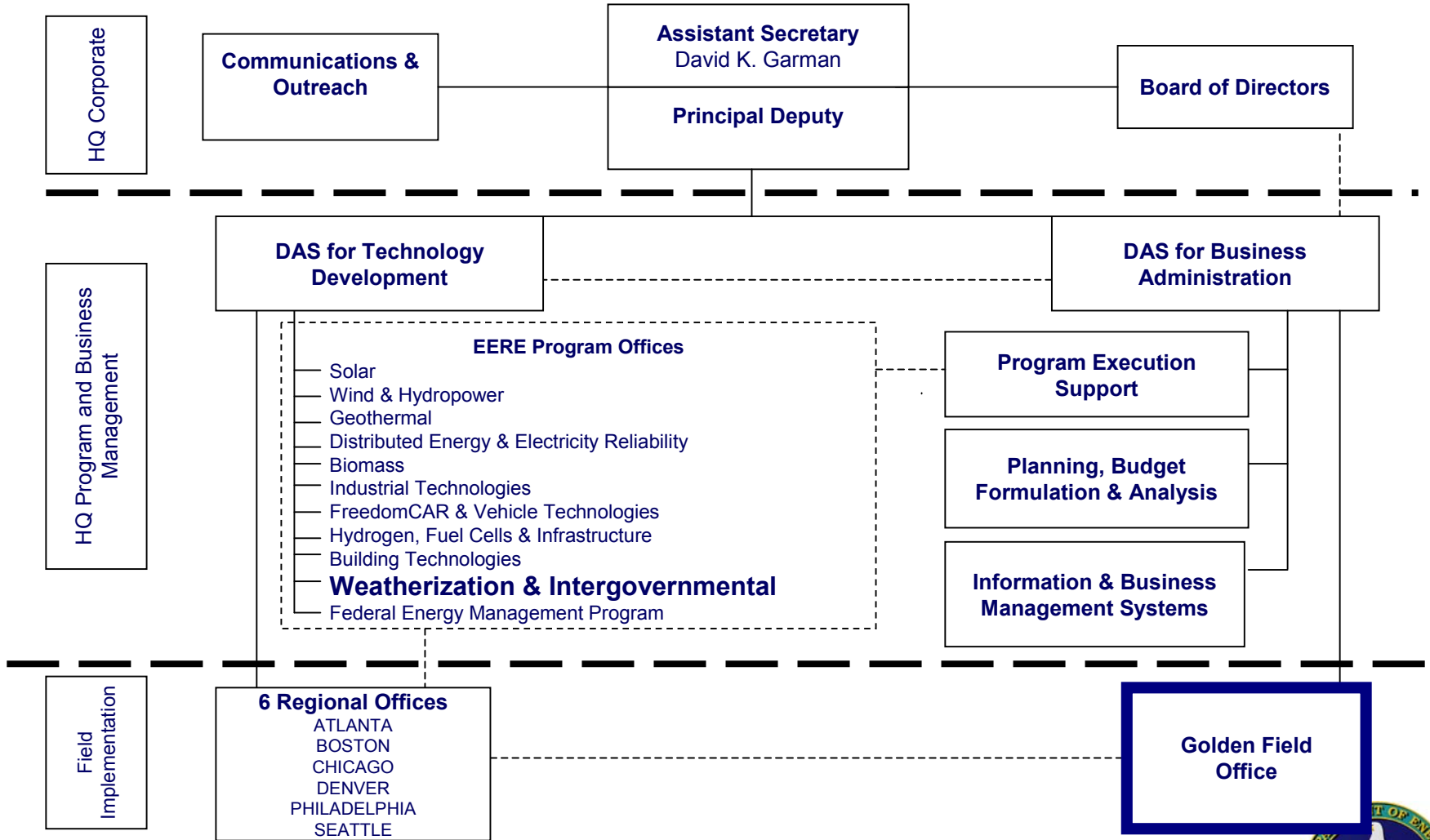


- Hydrogen
- Solar Energy
- Zero-Energy Buildings
- Wind Energy
- Hydropower
- Geothermal
- Biomass/Biorefinery Systems R&D
- Intergovernmental Activities
- Electric Reliability
- Energy Management
- NCCTI
- Program Direction
- Facilities & Infrastructure

Tribal Energy Requested  
FY2004 Budget: \$6 Million



# Office of Energy Efficiency and Renewable Energy



# Renewable Energy Resources





# Renewable Energy Technologies





DOE's Tribal Energy Program  
**Tribal Energy Program**

Promote tribal energy self-sufficiency and foster employment and economic development on tribal lands through the use of renewable energy



## **Authority**

Section 2606 of Title XXVI Energy Policy Act of 1992 (P.L. 102-486)







DOE's Tribal Energy Program  
**Tribal Energy Program**

“Indian land comprises 5% of the land area of the United States, but contains an estimated 10% of all energy resources in the United States”

“Wind resources in the Great Plains could meet 75% of the electricity demand in the contiguous 48 states.” (Native American Energy Development and Self-Determination Act of 2003)

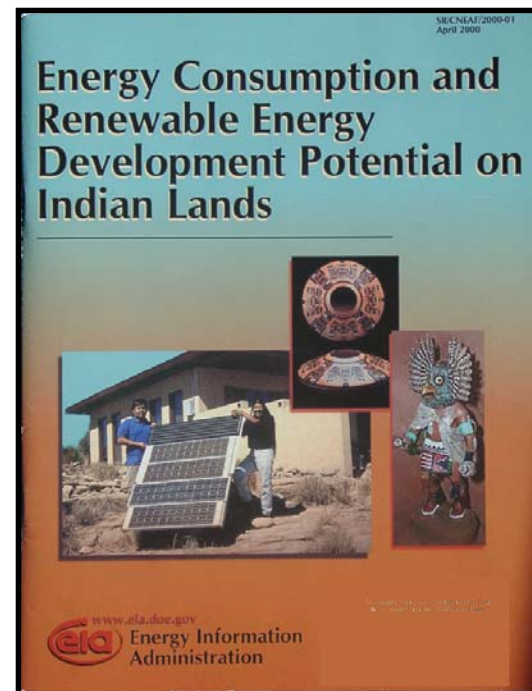




## DOE's Tribal Energy Program

# Tribal Energy Program

“Indian households on reservations are disproportionately without electricity. A total of 14.2% of Indian households have no access to electricity, as compared to only 1.4% of all U.S. households.” Navajo accounts for 75% of the households without electricity (2000 EIA Report)





DOE's Tribal Energy Program

# Tribal Energy Program

## Assist Tribes Meet Their Energy Goals

### Developing in Cooperation with Tribes

- Peer Review (November 2001)
- Strategy Session (December 2001)
- Tribal Energy "Handbook" Workshop (December 2002)
- Collaborative activities with Tribal and Inter-Tribal Groups


### Providing Funding Opportunities

- Competitive Solicitations

### Supporting Government-to-Government Relations

- Cooperative agreements between DOE and the Tribes





# DOE's Tribal Energy Program

# Tribal Energy Program

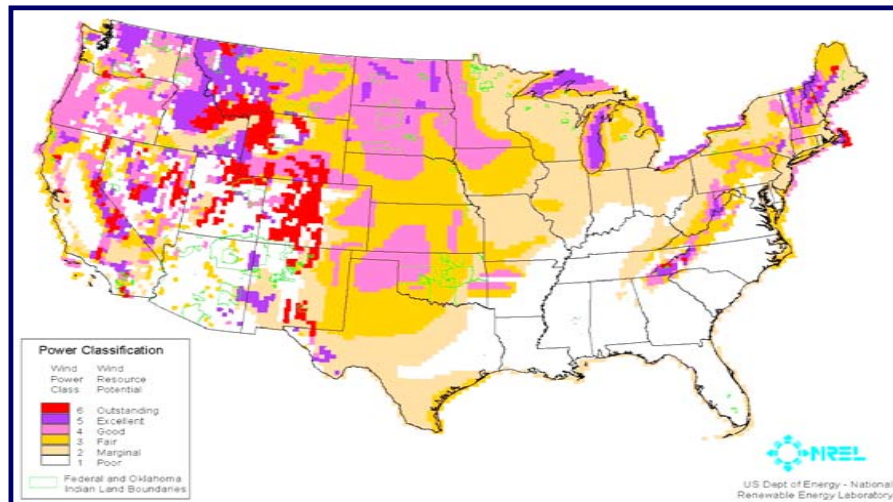
## Providing Information and Technical Assistance

### Technical Assistance

- Expert Advise
- Models and Tools
- Resource Maps

### Information and Support

- Regional Workshops
- Program Brochure
- Tribal Energy Website
- Guide for Tribal Energy Development (Under development)





## DOE's Tribal Energy Program Funding Opportunities

### First Steps Toward Developing Renewable Energy and Energy Efficiency

- Strategic planning
- Energy options analysis
- Capacity building
- Organizational development



Chairman Tex Hall, Three Affiliated Tribes  
Ground Breaking for Wind Turbine on the Fort  
Berthold Reservation

### Renewable Energy Development on Tribal Lands

- Feasibility studies
- Development projects (cost shared)

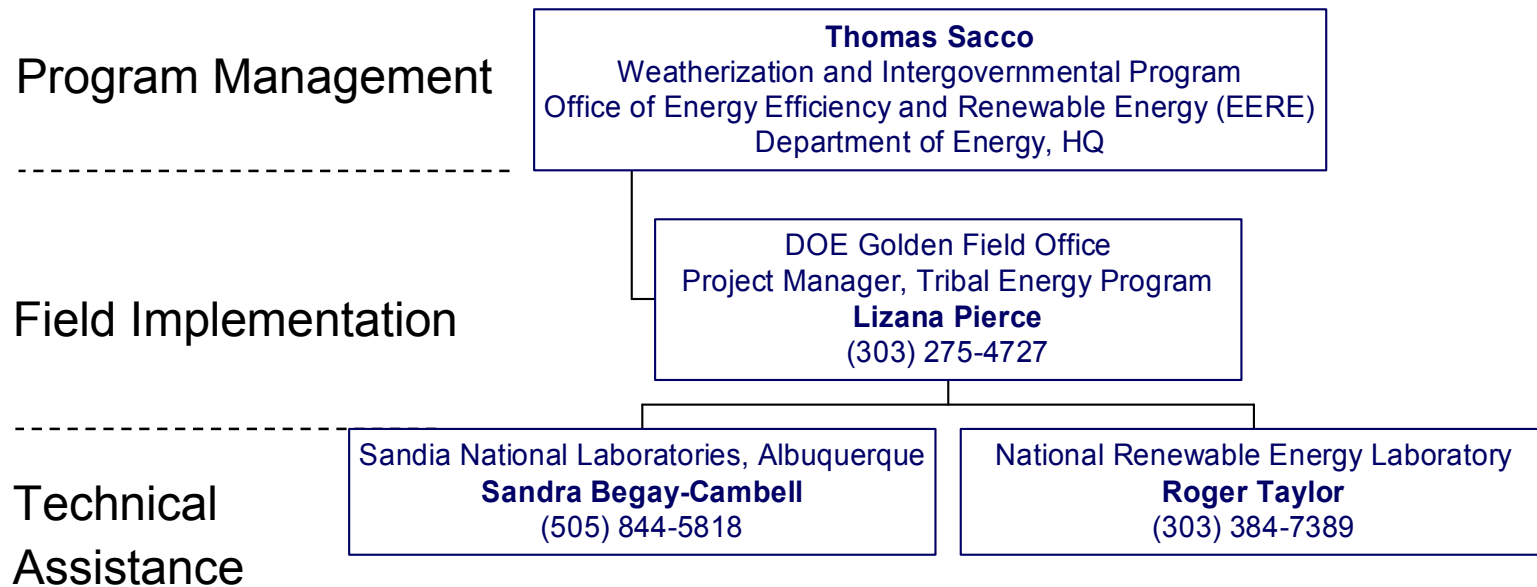




## DOE's Tribal Energy Program

# Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories.





# Tribal Energy Program History

**BETWEEN FY1994 AND FY2001, DOE FUNDED 51 PROJECTS  
TOTALING OVER \$9.5 MILLION**

## **Title XXVI Projects (Funded FY1994)**

-35 Projects in 13 States (\$6.5 million)

## **Remote Applications Projects (Funded FY99)**

-8 Projects in 5 States (\$1.9 million)

## **Tribal Colleges and Universities (Funded FY00-01)**

-7 Feasibility Studies in 6 States (\$700,000)

-1 Project in New Mexico (\$431,000)



**Solar Installation on  
Navajo Nation**





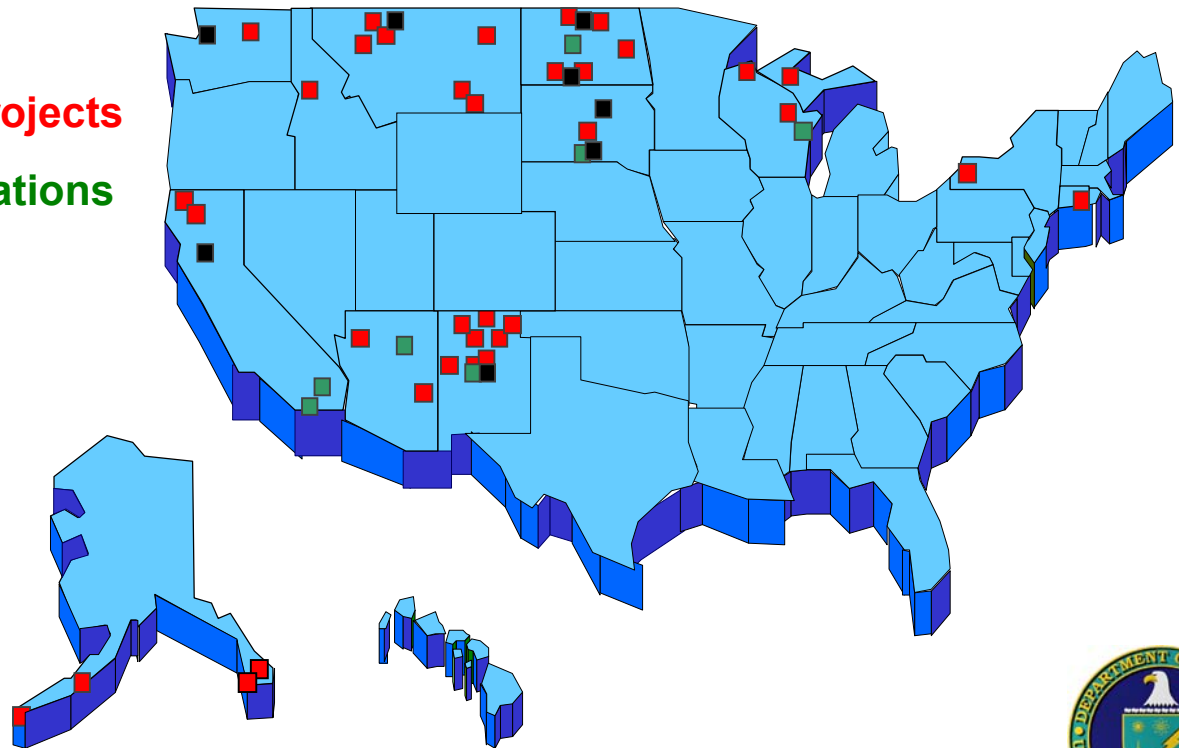
# Tribal Energy Program History

**BETWEEN FY 1994 AND FY 2001, DOE FUNDED 51 PROJECTS TOTALING OVER \$9.5 MILLION**

■ = FY1994-98 Title XXVI Projects

■ = FY1999 Remote Applications Projects

■ = FY2000-01 Colleges & Universities Projects





# Renewable Energy Projects on Tribal Lands



**Nez Perce Tribe  
Biodiesel Pilot Project**



**Blackfeet Tribe  
Small-Scale  
Utility Grade  
Wind Turbine  
Project**



**Ute Mountain Indian  
Reservation  
PV Water Pumping**



**Turtle Mountain  
Band of  
Chippewa Tribe  
Wind Resource  
Assessment**



# Renewable Energy Projects on Tribal Lands

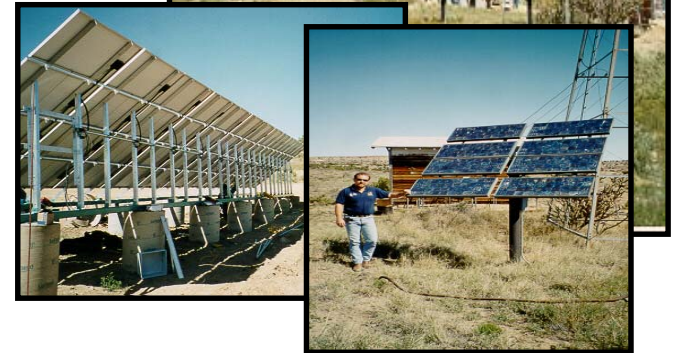


Pueblo of Laguna  
(Majors Ranch)  
Solar and Wind  
Installations



Navajo Nation  
(Dilkon/Teesto  
Chapters)

PV Arrays on  
Navajo Homes



Jicarilla Apache Reservation PV Array on Dulce High School



# Renewable Energy Projects on Tribal Lands

## Utility Scale Wind Turbine

### Rosebud Sioux Indian Reservation



## Oneida Tribe of Indians of Wisconsin Solar Project





**DOE's Office of Energy Efficiency and Renewable Energy**

# **Tribal Energy Projects**

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION  
FUNDED FROM FY2002 SOLICITATION**

## **Renewable Energy Projects (Funded FY2002)**

- 12 Feasibility Studies in 12 States (\$900,000)
- 2 Development Projects in 2 States (\$2,200,000)

## **Renewable Energy Projects (Funded FY2003)**

- 8 Feasibility Studies in 8 States (\$1,500,000)

**Rosebud Sioux Reservation,  
July 4 Celebration**





# Tribal Energy Projects

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION  
FUNDED FROM FY2002 SOLICITATION**

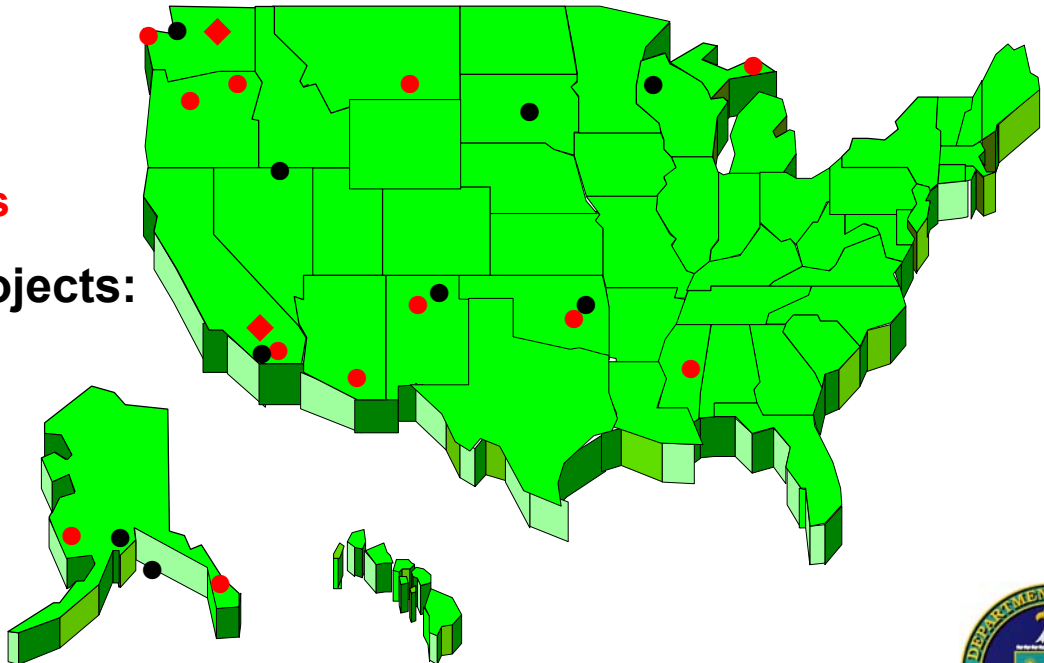
**FY2002 Funded Projects:**

● = 12 Feasibility Studies

◆ = 2 Developmental Projects

**FY2003 Funded FY2002 Projects:**

● = 8 Feasibility Studies





# DOE's Office of Energy Efficiency and Renewable Energy FY2002 Tribal Energy Projects

## **Colville Confederate Tribes (WA)**

Umatilla Indian Reservation (OR)

Confederate Tribes of Warm Springs (OR)

Kaw Nation of Oklahoma (OK)

Makah Tribe (WA)

Manzanita Band of Mission Indians (CA)

Mississippi Band of Choctaw Indians (MI)

Northern Cheyenne Nation (MT)

Sealaska Native Corporation (AK)

Pueblo of Jemez (NM)

**Ramona Band of Cahuilla Mission Indians  
(CA)**

Sault Ste. Marie Tribe (MI)

White Mountain Apache Tribe (AZ)

Yukon-Kuskokwim Health Corporation (AK)

Bristol Bay Native Corporation (AK)

Cherokee Nation (OK)

Lower Brule Sioux Tribe (SD)

Shoshone Paiute Tribes (NV)

St. Croix Tribal Government (WI)

Taos Pueblo (NM)

Tulalip Tribe (WA)

Viejas Tribal Government (CA)



# FY2002 Renewable Energy Projects

Northern  
Cheyenne Nation  
Wind Resource  
Assessment



Kaw Nation

Wind Resource  
Assessment



Colville Indian  
Power and  
Vener Energy  
Substation





# DOE NEWS

U.S. DEPARTMENT OF ENERGY • OFFICE OF PUBLIC AFFAIRS • WASHINGTON, DC 20585

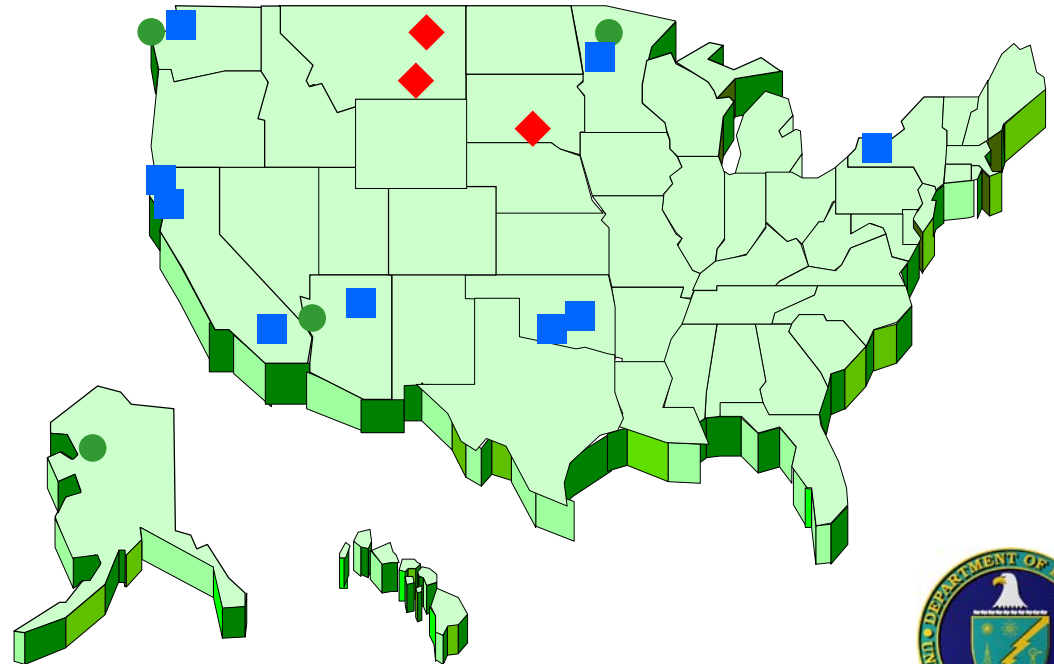
## DOE Awarded \$2.9 Million to 16 Tribal Clean Energy Projects

### FY2003 PROJECTS:

◆ = 3 DEVELOPMENTAL PROJECTS

● = 4 FEASIBILITY STUDIES

■ = 9 FIRST STEPS STUDIES







# FY2003 Tribal Energy Projects

## Seven Projects in 6 States

Rosebud Sioux Tribe (SD)

Northern Cheyenne Tribe, Inc. (MT)

Assiniboine & Sioux Tribes of the Fort Peck Reservation (MT)

Native Village of Venetie (AK)

The Makah Indian Nation (WA)

Red Lake Band of Chippewa Indians (MN)

Fort Mojave Tribe (AZ)

## Nine First Step Studies in 6 States

The Hopi Tribe (AZ)

Smith River Rancheria (CA)

Cabazon Band of Mission Indians (CA)

Seneca Nation of Indians (NY)

White Earth Reservation (MN)

Citizen Potawatomi Nation (OK)

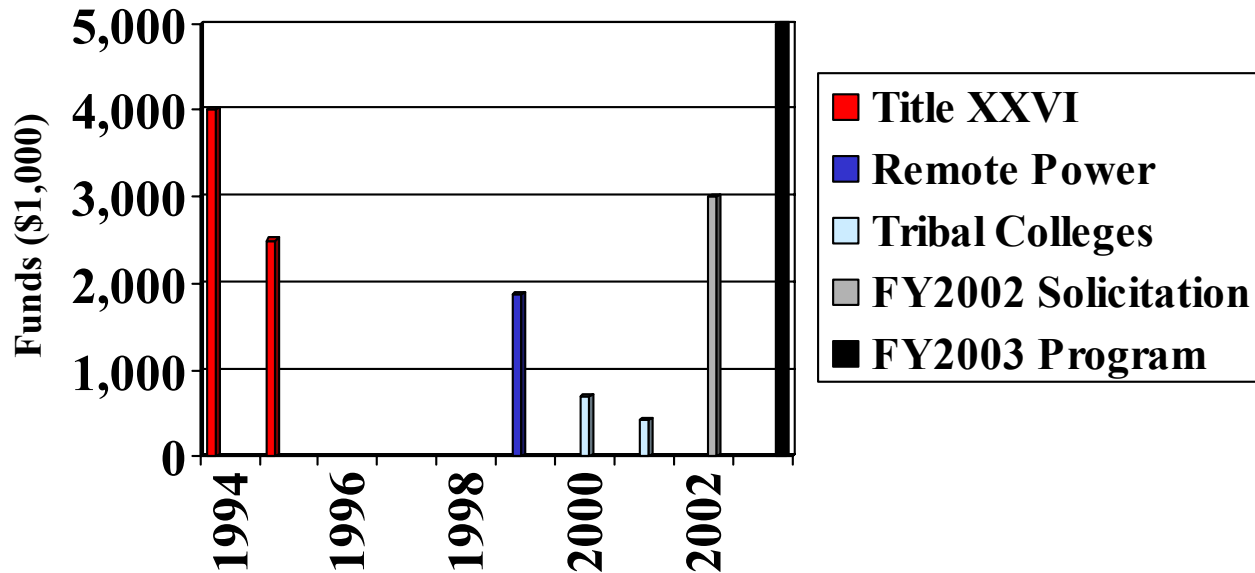
Fort Sill Apache Tribe of Oklahoma (OK)

Yurok Tribe (CA)

Samish Indian Nation (WA)



# Tribal Energy Program Funding



	1994	1995	1999	2000	2001	2002	2003
<b>Title XXVI</b>	4,000	2,500					
<b>Remote Power</b>			1,900				
<b>Tribal Colleges</b>				700	430		
<b>FY 2002 Solicitation</b>						3,000	
<b>FY2003 Program*</b>							5,000

\* Congress appropriated \$6,000 with \$1,000 being non-discretionary





# DOE's Tribal Energy Program Funding

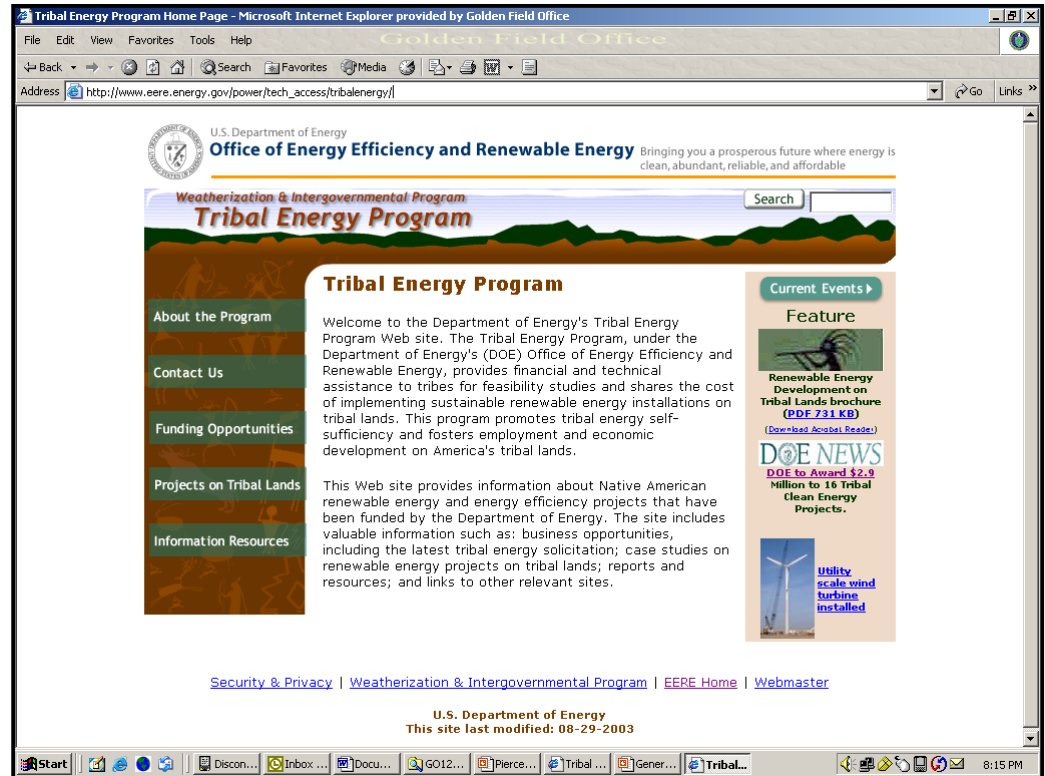
<b>FY2002</b>	<b>FY2003</b>	<b>FY2003</b>	<b>FY2004</b>
<b>Enacted</b>	<b>Requested</b>	<b>Enacted</b>	<b>Requested</b>
<b>\$3,000</b>	<b>\$8,307</b>	<b>\$6,000*</b>	<b>\$6,000</b>

\* Includes \$1,000 for Council of Energy Resource Tribes (CERT)



# Tribal Energy Web Site

- Features
- Current Events
- Funding Opportunities
- Projects on Tribal Lands
  - Project Overviews
  - Status and Reports
  - Contacts
- Information Resource
- Contacts



Tribal Energy Program [www.eere.energy.gov/tribalenergy](http://www.eere.energy.gov/tribalenergy)





# Tribal Energy Funding Opportunities

Announcements

Tribal Energy Program

[www.eere.energy.gov/tribalenergy](http://www.eere.energy.gov/tribalenergy)

Federal Grant Opportunities

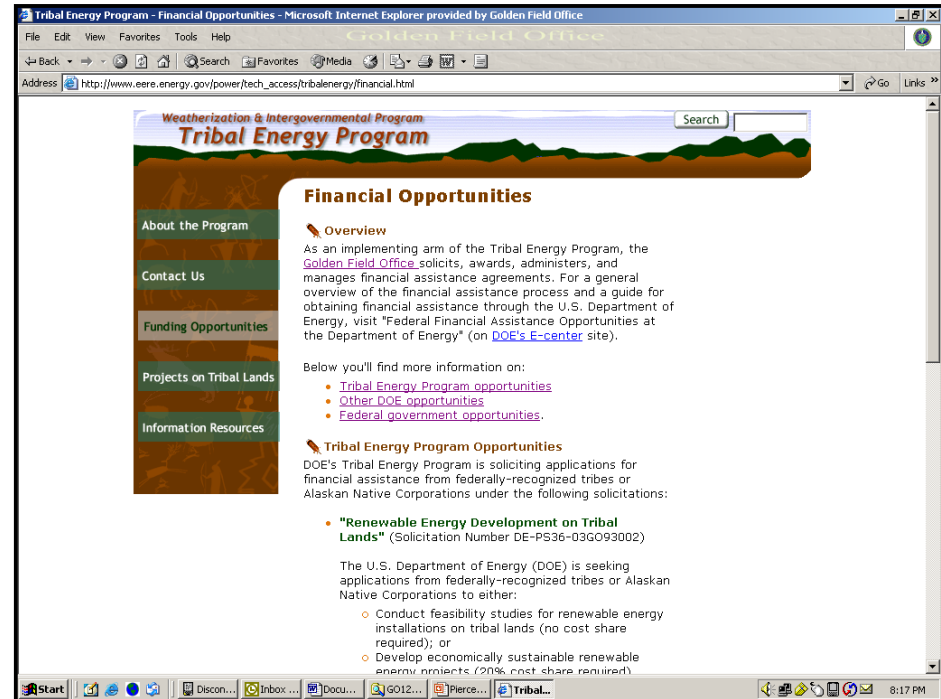
[www.fedgrants.gov/](http://www.fedgrants.gov/)

Federal Funding Opportunities

[www.fedbizopps.gov/](http://www.fedbizopps.gov/)

Electronic Application Submissions

<http://e-center.doe.gov>



**Weatherization & Intergovernmental Program**  
**Tribal Energy Program**

**Financial Opportunities**

**Overview**

As an implementing arm of the Tribal Energy Program, the [Golden Field Office](#) solicits, awards, administers, and manages financial assistance agreements. For a general overview of the financial assistance process and a guide for obtaining financial assistance through the U.S. Department of Energy, visit "Federal Financial Assistance Opportunities at the Department of Energy" (on [DOE's E-center](#) site).

Below you'll find more information on:

- [Tribal Energy Program opportunities](#)
- [Other DOE opportunities](#)
- [Federal government opportunities](#).

**Tribal Energy Program Opportunities**

DOE's Tribal Energy Program is soliciting applications for financial assistance from federally-recognized tribes or Alaskan Native Corporations under the following solicitations:

- **"Renewable Energy Development on Tribal Lands"** (Solicitation Number DE-PS36-03GO93002)

The U.S. Department of Energy (DOE) is seeking applications from federally-recognized tribes or Alaskan Native Corporations to either:

- Conduct feasibility studies for renewable energy installations on tribal lands (no cost share required); or
- Develop economically sustainable renewable energy projects (20% cost share required)

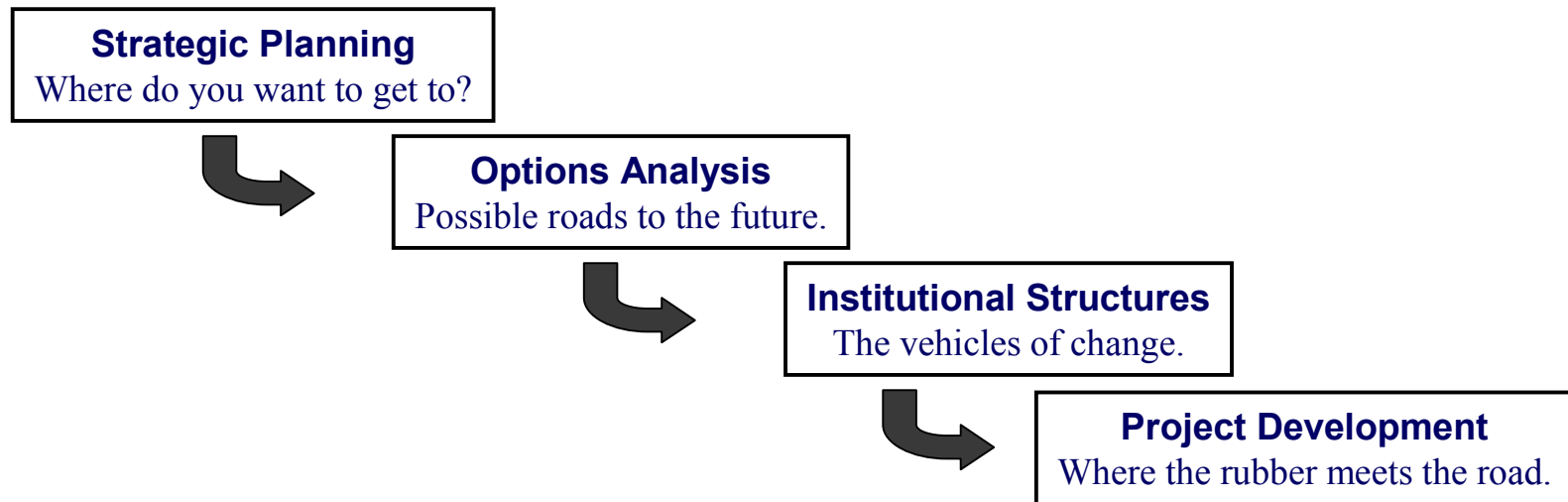
Tribal Energy Program [www.eere.energy.gov/tribalenergy](http://www.eere.energy.gov/tribalenergy)





# Web-Based Guide to Tribal Energy Development

- Framework for the planning and implementation of energy development strategies
- Tool for addressing energy needs and an aid in achieving energy vision



# Guide to Tribal Energy Development

## Development Processes

- Strategic Planning
- Options Analysis
- Organizational Development
- Project Development

## Resource Library

- Energy Resources
- Technologies
- Costs
- Risk Factors
- Legal Issues
- Financing Options
- Contacts

EERE: A Guide to Tribal Energy Department: Home Page - Microsoft Internet Explorer provided by Golden Field Office

Golden Field Office

Address: [http://eeredev.nrel.gov/power/tech\\_access/tribalenergy/guide/](http://eeredev.nrel.gov/power/tech_access/tribalenergy/guide/)

U.S. Department of Energy  
**Energy Efficiency and Renewable Energy** *Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable*

EERE Home

A Guide to  
**Tribal Energy Development**

Search

**About This Site**

**The Development Process**

- Strategic Planning
- Evaluating Options
- Organizational Development
- Project Development

**Resource Library**

- Assessing Energy Resources
- Energy Technologies
- The Electrical Grid
- The Costs
- Risk Factors
- Legal Issues
- Financing Options
- Who To Contact

**Publication Index**

The Rosebud Sioux Indian Reservation, home of the Sicangu Oyate, and located in south-central South Dakota, is now home to a 750-kilowatt wind turbine. Erected near the Rosebud Casino and Convention Center, the new wind turbine is helping to power that facility while earning money by selling excess power to the Basin Electric Power Cooperative.

**What's New**

This is a preliminary version of the Tribal Energy Development Web site and is intended for review purposes only. Please do not distribute the Web address for this preliminary site, and do not link to it. When we launch the site later this year, it will be located at a different Web address.

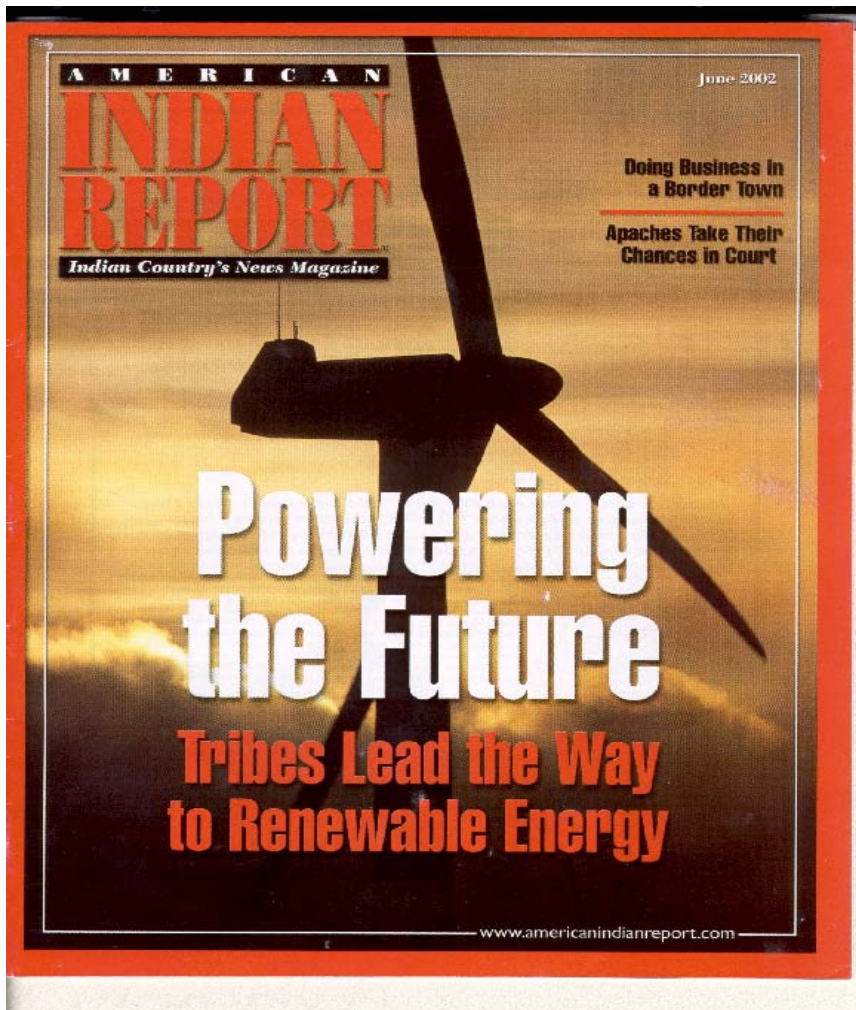
"Generating our own energy will help our tribe develop a sustainable homeland economy on the reservation in the short term and strengthen our tribal sovereignty in the long term," says Ronald L. Neiss, an enrolled member of the tribe and president of the Rosebud Sioux Tribe Utility Commission. "A tribe is only as sovereign as its economy and finances permit. One of our tribal goals is energy self-sufficiency, and developing our renewable energy resources will help us achieve that goal."

Your tribe can follow in the footsteps of the Sicangu Oyate using the information and ideas presented here. Tribal energy development can serve many goals: economic development, electrification, self-sufficiency, clean air...the list is as long as you wish to make it. With support from the U.S. Department of Energy's [Tribal Energy Program](#), this Web site is intended to give you the information you need to achieve your energy goals. [Learn more about this site, and how to use it.](#)

Start

5:08 PM





## Questions

**“Tribes Leading the Way to Renewable Energy”**

**American Indian Report  
June 2002**

