



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

**TRIBAL ENERGY PROJECT
MANAGEMENT**



Peer Review

January 13-14, 2004

Lizana Pierce

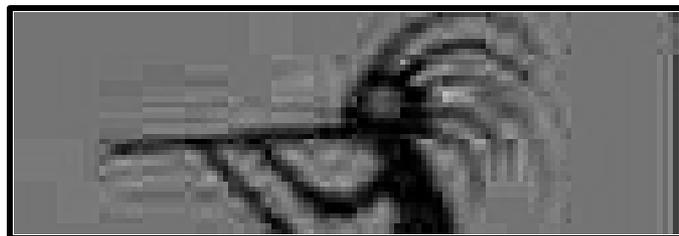
DOE, Golden Field Office



DOE's Tribal Energy Program

Tribal Energy Program

Providing financial and technical assistance to Tribes for feasibility studies and sharing the cost of implementing sustainable renewable energy projects on Tribal Lands



Authority

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



DOE's Tribal Energy Program

Tribal Energy Program

Tribes defined as:

- **Federally-recognized Tribes;**
- **Alaska Native villages; and**
- **Alaskan Native Corporations.**

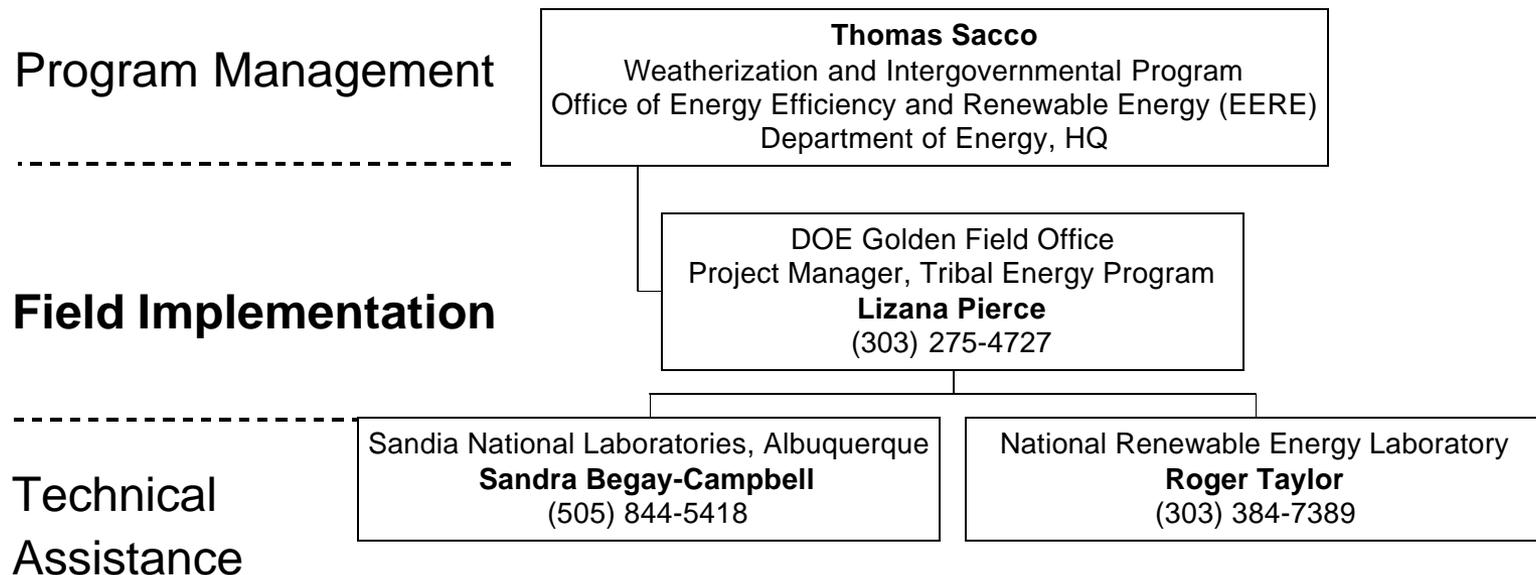
Tribal Lands include Indian reservations; Public domain Indian allotments; Former Indian reservations in Oklahoma; Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and Lands held in fee simple or under a Federal land lease.



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.





DOE's Tribal Energy Program

Tribal Energy Program Organization

Roles and Responsibilities

Project Management (DOE, Golden Field Office)

Field implementation for administering and managing partnerships with Tribal Governments

- Issue solicitations
- Manage resulting projects
- Promote the Program
- Leverage other Federal resources
- Facilitates coordination among other field organizations
- Provide technology transfer and information dissemination



DOE's Tribal Energy Program

Tribal Energy Program

Project Management

- ✓ **Competitive Solicitation Process**
- ✓ **Project Tracking**
- ✓ **Project Overview**
- ✓ **Project Accomplishments**



**Solar Installation on
Navajo Nation**



DOE's Tribal Energy Program

Tribal Energy Program

Competitive Solicitation

- ✓ **Planning with Indian Country**
- ✓ **Preparation of the Solicitation**
- ✓ **Announcements – FRN, CBD, Website, Indian Country Newspaper, Indian Report, Mass Emails, Mass Mailings**
- ✓ **Pre-Application Conferences**
- ✓ **Proposal Writing Workshop**
- ✓ **Submittal of Applications**
- ✓ **Evaluation & Selection**
- ✓ **Negotiation and Award**



2.0 KW PV Array for Dulce
High School on Jicarilla
Apache Reservation



DOE's Tribal Energy Program

Tribal Energy Program

Competitive Solicitation

Planning with Indian Country

- ✓ Peer Review (November 2001)
- ✓ Strategy Session (December 2001)

Preparation of the Solicitation

- ✓ Priorities
- ✓ Congressional Language
- ✓ Available Funding



Solar Education Trailer
Oneida Nation (Wisconsin)



DOE's Tribal Energy Program

Tribal Energy Program

Competitive Solicitation

Announcement

- ✓ Federal Register Notice and Commerce Business Daily
- ✓ Tribal Energy Website Posting
- ✓ Indian Country Newspaper
- ✓ Indian Report
- ✓ Email Notification (Contact Dbase)
- ✓ Mass Mailings (570+ Tribes)



Solar Installation at Pueblo of Laguna's Majors Ranch in New Mexico



DOE's Tribal Energy Program

Tribal Energy Program

Competitive Solicitation

Pre-Application Conference

- ✓ Conference (March 2002)
- ✓ Proposal Writing Workshop

Submittal of Applications

- ✓ Electronic Submittal (President's E-Gov Initiative)



Solar Installation at Pueblo of Laguna's Majors Ranch



DOE's Tribal Energy Program

Tribal Energy Program

Competitive Solicitation

Evaluation and Selection

- ✓ Compliance Screening
- ✓ Preliminary Technical Review
- ✓ Independent Review by Type, Technology and Category
- ✓ Merit Review for Consensus
- ✓ Reviewers from DOE, Industry, Laboratories, Indian Country, and Other Federal agencies (20+)



Turbine Installed at
Rosebud Sioux
Reservation in South
Dakota



Tribal Energy Program Accomplishments

Tribes Funded

- **Over last decade, total of 90 Tribal energy projects funded at \$17 million**
- **Total of 62 Tribes funded (10.8% of all 570+ Tribes and Alaska Villages)**
- **Total of 57 Tribes funded in contiguous 48 States (22.4% of 254 Tribes)**
- **Funded 7 of the 34 Tribal Colleges and Universities (20.6%)**



DOE's Tribal Energy Program
Tribal Energy Program

Project Tracking

Annual Project Reviews

- ✓ **Project Review Meeting (October 2002)**
- ✓ **Project Review Meeting (November 2003)**

Site Visits

- ✓ **On-going**
- Rosebud Sioux Reservation,
July 4 Celebration

Reporting

- ✓ **Quarterly Technical and Financial Reporting**
- ✓ **Summary Status and Final Reports Posted on Tribal Energy Website**





Tribal Energy Program
(FY2002-FY2003)



DOE's Tribal Energy Program

Tribal Energy Program

Providing Financial and Technical Assistance to Tribes for Feasibility Studies and Sharing the Cost of Implementing Sustainable Renewable Energy Projects on Tribal Lands

**Per the Energy and Water Development (E&WD)
Conference Language:**

“The conference agreement includes \$3,000,000 for renewable Indian energy resources. The conferees expect these funds to be administered as competitively awarded grants to federally-recognized tribes throughout the United States.”



DOE's Tribal Energy Program

Tribal Energy Program

Eligibility restricted to Federally-recognized Tribes on whose Tribal Lands the projects will be located.

➤ **Tribes include:**

- Federally-recognized Tribes;
- Alaska Native villages; and
- Alaskan Native Corporations.

➤ **Tribal Lands include:**

- Indian reservations;
- Public domain Indian allotments;
- Former Indian reservations in Oklahoma;
- Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and
- Lands held in fee simple or under a Federal land lease.



DOE's Tribal Energy Program

Funding Opportunities (FY2002)

Renewable Energy Development on Tribal Lands

Solicited financial assistance 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).**



DOE's Office of Energy Efficiency and Renewable Energy

Tribal Energy FY2002 Projects

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

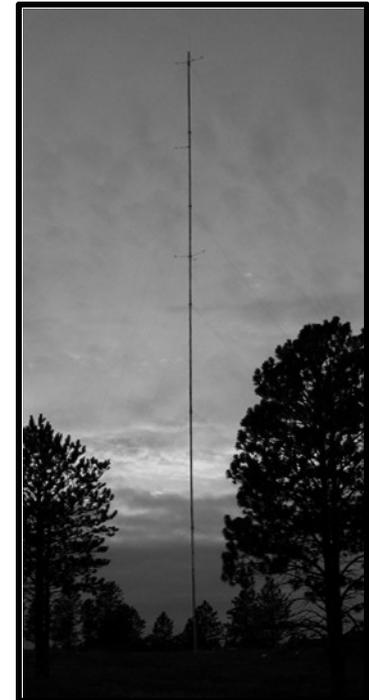
Renewable Energy Projects (Funded FY2002)

- 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)

**Northern Cheyenne Nation
Wind Resource Assessment**





Tribal Energy Projects

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

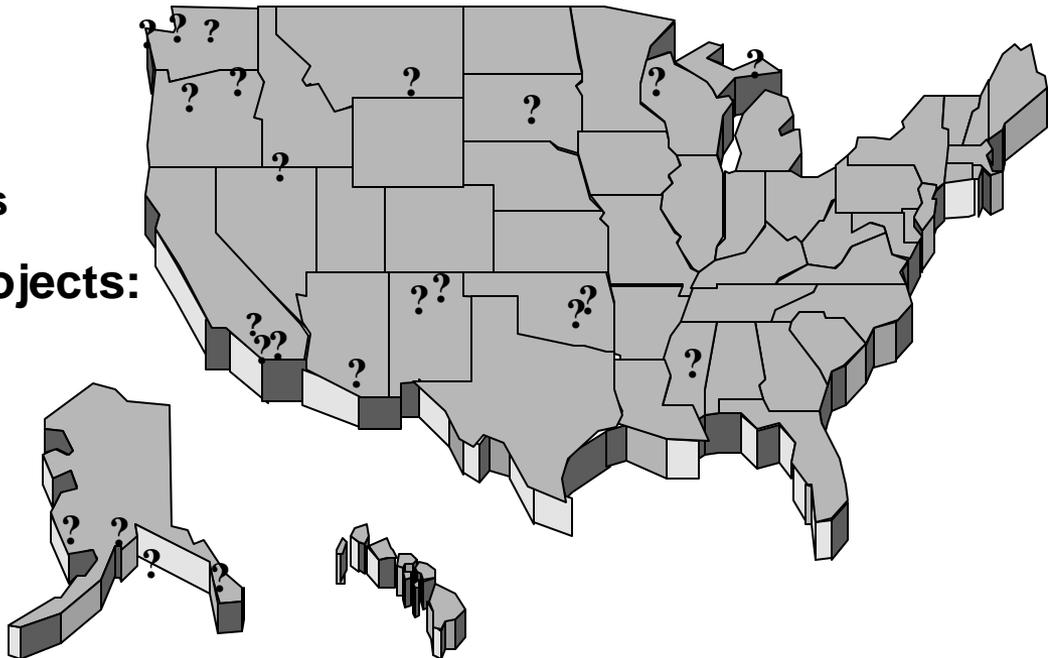
FY2002 Funded Projects:

? = 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)

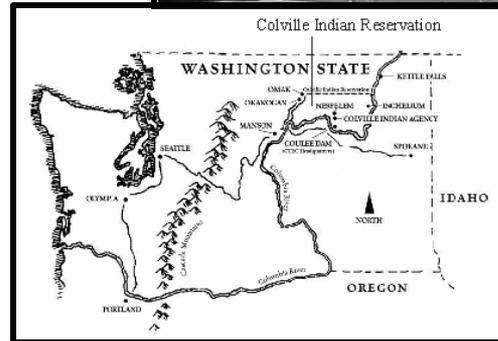
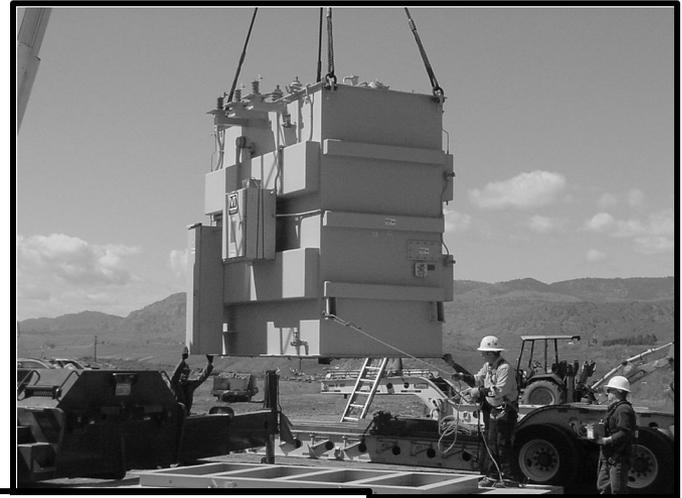
Viejas Tribal Government (CA)

FY2002 Renewable Energy Projects

Northern Cheyenne Nation Wind Resource Assessment



Kaw Nation Wind Resource Assessment



Colville Indian Power and Vener Energy Substation

Tribal Energy Web Site

Confederated Tribes of Warm Springs: Project Summary

Includes:

- Award Information
- Project Summary
- Objectives
- Project Scope
- Project Location
- Status
- Contacts

The screenshot shows a web browser window with the URL http://www.eere.energy.gov/power/tech_access/tribalenergy/projects/fy02_warmsprings.html. The page title is "Tribal Energy Program - FY2002 Projects: Confederated Tribes of Warm Springs: Project Summary". The page features a navigation menu on the left with categories like "About the Program", "Funding Opportunities", and "Information Resources". The main content area is titled "FY2002 Projects" and lists the "Confederated Tribes of Warm Springs: Project Summary".

Awardee:	Confederated Tribes of Warm Springs
Location:	Warms Springs, Oregon
Project Title:	Feasibility Study for Assess Wind Energy Potential on Warm Springs Tribal Lands
Type of Application:	Feasibility
DOE Grant Number:	DE-FC36-02GO12103
Project Amounts:	DOE: \$436,439 Awardee: \$57,146 Total: \$493,585
Project Period of Performance:	Start: September 2002 End: September 2005

Summary
Warm Springs Power Enterprises, a corporate entity owned and operated by the Confederated Tribes of Warm Springs, will conduct a 36-month comprehensive wind energy resource assessment and development feasibility study.

The feasibility study will include monitoring of several tribal land sites to assess which of these sites has the greatest potential for an economically viable wind energy power project. The site with the greatest potential to be developed will be selected for additional detailed monitoring of wind resources, a site-specific preliminary engineering design and

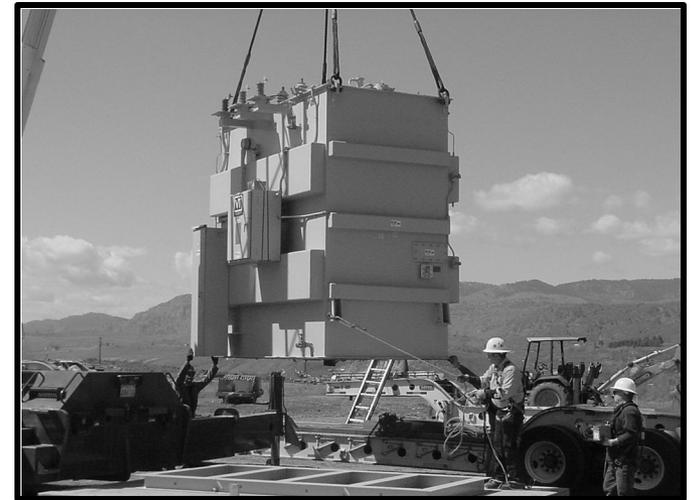
Tribal Energy Program www.eere.energy.gov/tribalenergy



Tribal Energy Program Accomplishments

FY2002 TRIBAL ENERGY PROJECTS

- **Twenty-two (22) projects funded at \$4.56 million dollars**
- **DOE funds of \$4.56 million leveraged by \$887,500 (16%) cost share**
- **Cost share exceeds minimum required by 88% (20% required for development projects only)**
- **Installation of substation completed (Colville Nation)**



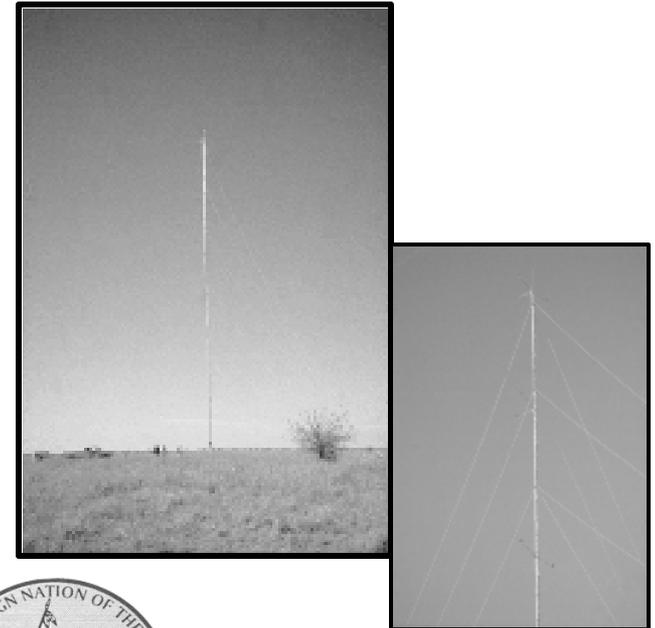
**Colville Indian Power and
Vener Energy Substation**



Tribal Energy Program Accomplishments

FY2002 TRIBAL ENERGY PROJECTS

- White Mountain Apache biomass feasibility study completed
- Northern Cheyenne Nation proceeding to pre-development of 30 MW wind farm
- Makah Nation proceeding to pre-development of 30 MW wind farm
- 20 anemometers installed with data collection on-going



**Kaw Nation
Wind Resource
Assessment**



DOE's Tribal Energy Program

Funding Opportunities (FY2003)

First Steps Toward Developing Renewable Energy and Energy Efficiency

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



Renewable Energy Development on Tribal Lands

- Feasibility studies
- Development projects (cost shared)



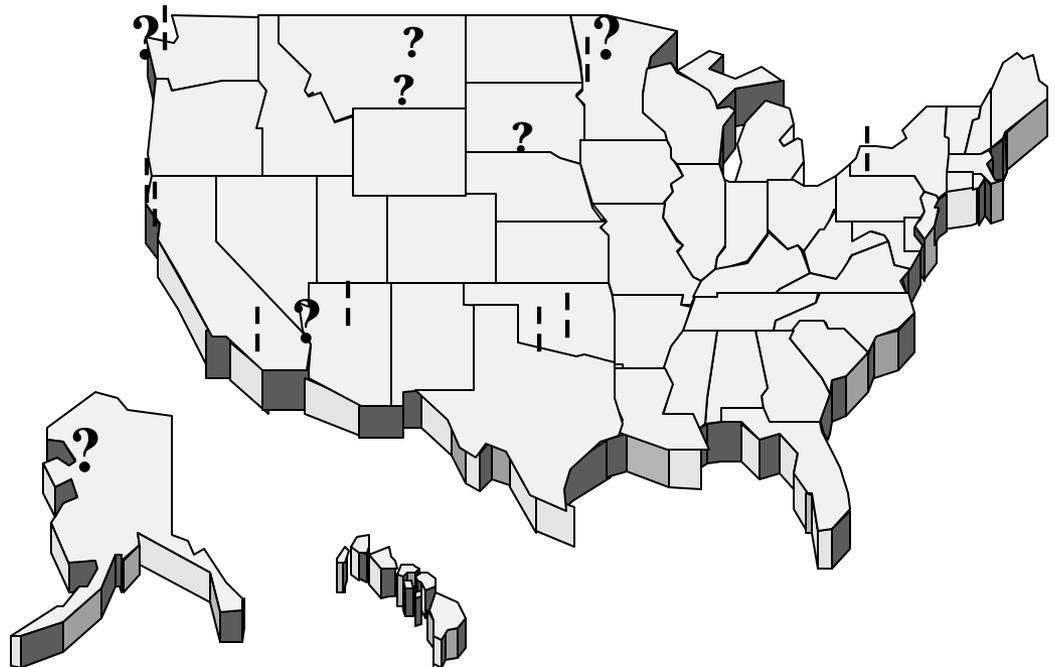
DOE NEWS

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

DOE Awarded \$2.9 Million to 16 Tribal Clean Energy Projects in FY2003

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 Accomplishments

FY2003 TRIBAL ENERGY PROJECTS (2003)

- **Three (3) development, four (4) feasibility and nine (9) “First Steps” projects awarded Aug/Sep 2003**
- **DOE funds of \$2.9 million leveraged by \$1,057,480 (27%) cost share**
- **Cost share exceeds minimum required by 156%**
- **Project plans presented at Tribal Energy Project Review (November 2003)**





Tribal Energy Program Accomplishments

Applications Funded (FY2002-FY2003)

- **Funded all 22 applications (100%) considered of merit under the FY2002 solicitation (59% of all applications received).**
- **In FY2003, funded 7 of the 17 applications (41%) recommended by the Merit Review Committee (MRC). Plans to fund an additional 7 in FY2004 (82%) for a total of 23% of all applications.**
- **Funded all 9 “First Steps” applications (100%) recommended by the MRC in FY2003 (43% of all applications received).**



Tribal Energy Program Accomplishments

Tribes Funded (FY2002-FY2003)

- **Funded 38 tribal energy projects at \$7.5 million**
- **Total of 35 Tribes funded (6% of all 570+ Tribes and Alaska Villages)**
- **Increased the number of applications received by 119% (37 received in FY2002 and 81 in FY2003)**
- **Received applications from over 100 different Tribes**



Tribal Energy Program Accomplishments

- **DOE funds leveraged by \$1.93 million (20%) in cost share (630% above minimum required)**
- **Additional 660 kW of wind power planned Spring 2004**
- **Potential of an additional 90 MW of installed wind power on Tribal Lands**