U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

Tribal Energy Program

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

# *DOE's Tribal Energy Program*

## *Renewable Energy & Efficiency for Tribal Community Development Workshop*

**August 7, 2012**

**Lizana Pierce, Project Manager**
**U.S. DOE, Tribal Energy Program**

# Department of Energy

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

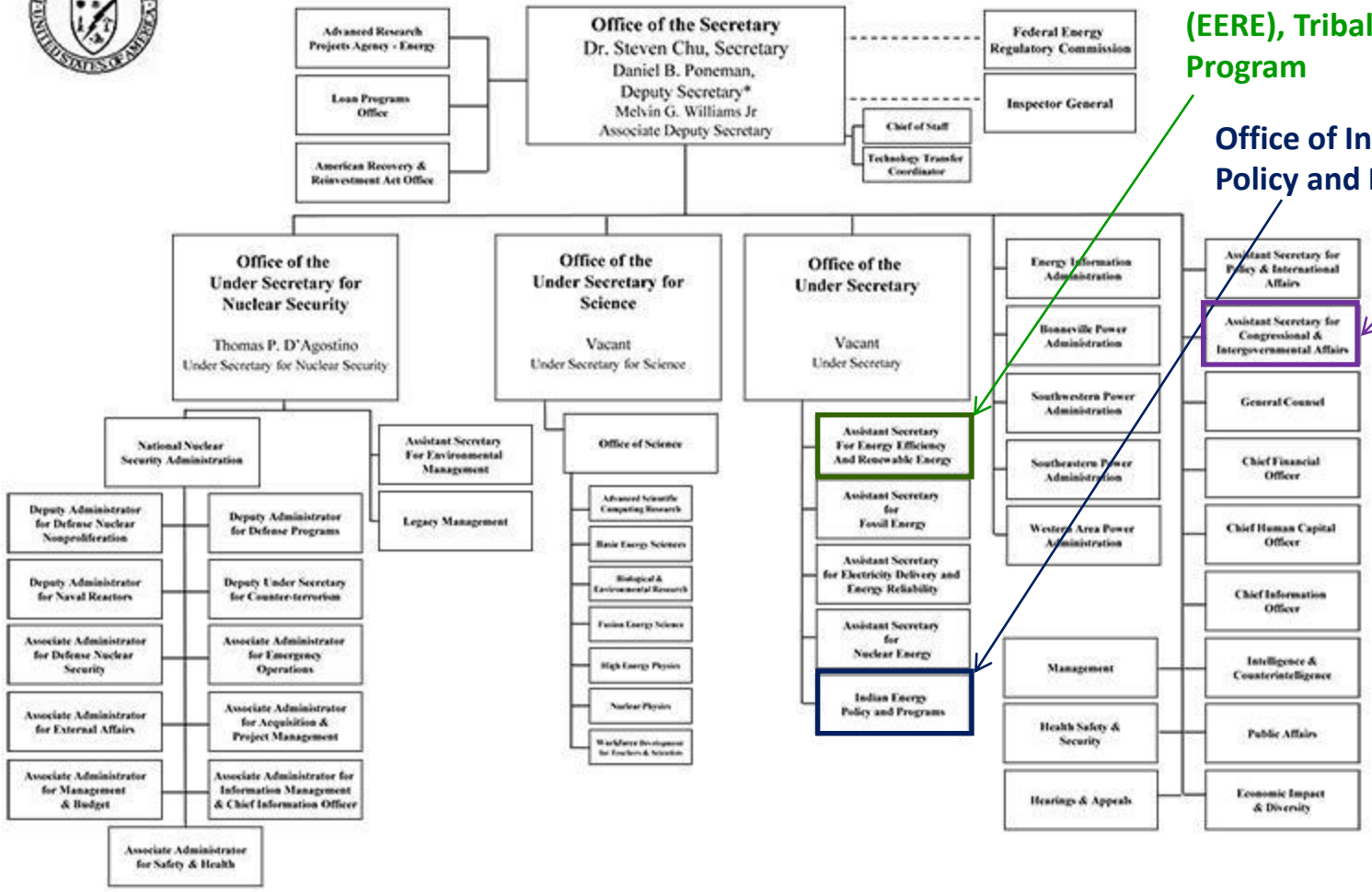
Contributes to the future of the Nation by ensuring energy security, maintaining the safety, security and reliability of the nuclear weapons stockpile, cleaning up the environment from the legacy of the Cold War, and developing innovations in science and technology

### Managed by Program Offices:

- **Advanced Research Projects Agency - Energy**
- **Loan Programs Office**
- **Electricity Delivery & Energy Reliability**
- **Energy Efficiency & Renewable Energy**
- **Environmental Management**
- **Fossil Energy**
- **Indian Energy Policy and Programs**
- **Legacy Management**
- **Nuclear Energy**
- **Science**

**Principally, a National Security Agency**

# DEPARTMENT OF ENERGY




Office of Energy Efficiency and Renewable Energy (EERE), Tribal Energy Program

Office of Indian Energy Policy and Programs

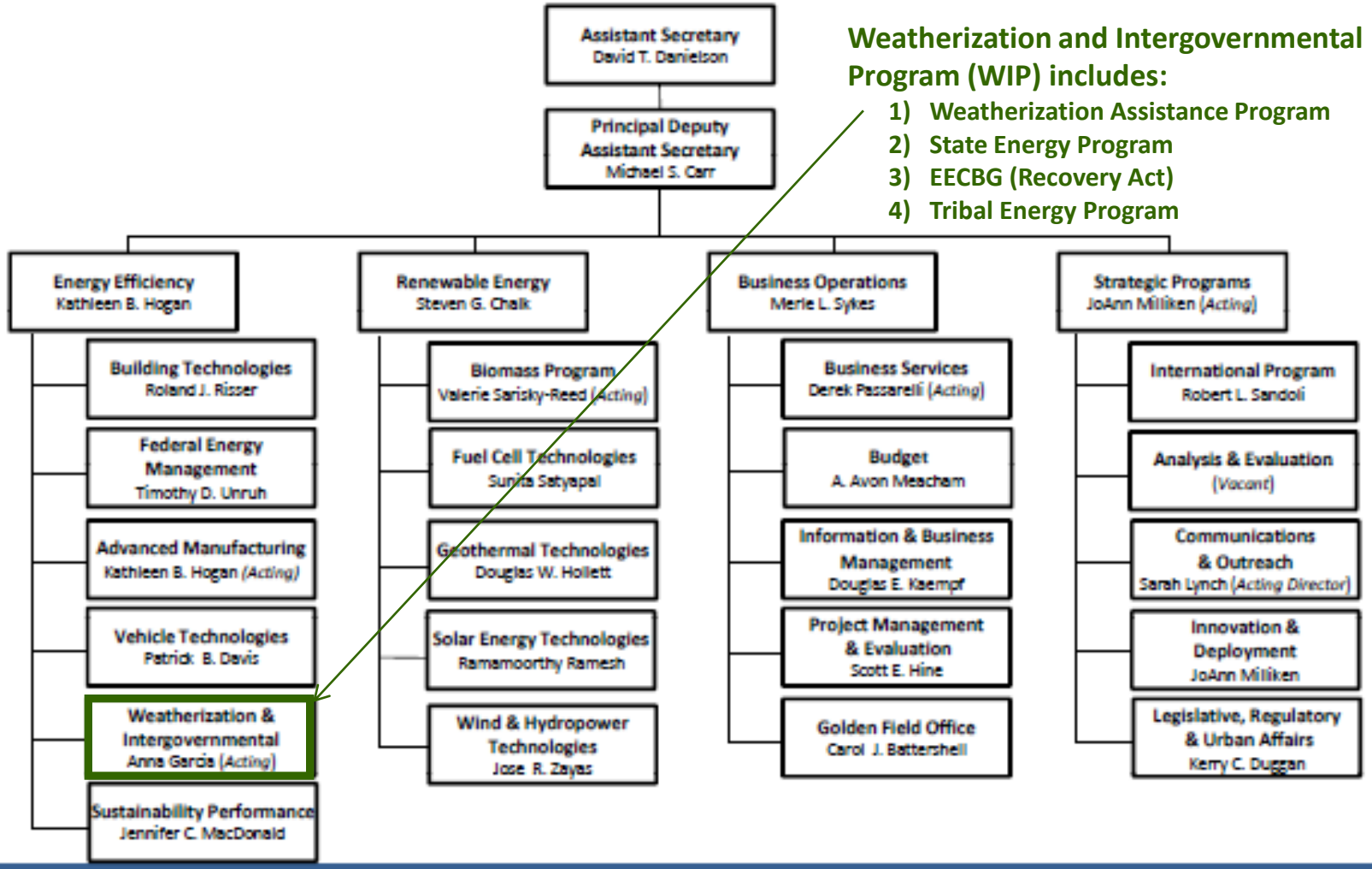
Congressional & Intergovernmental Affairs

* The Deputy Secretary also serves as the Chief Operating Officer

06 Dec 11

# EERE Organization Chart

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy




**Weatherization and Intergovernmental Program (WIP) includes:**

1) **Weatherization Assistance Program**
2) **State Energy Program**
3) **EECBG (Recovery Act)**
4) **Tribal Energy Program**

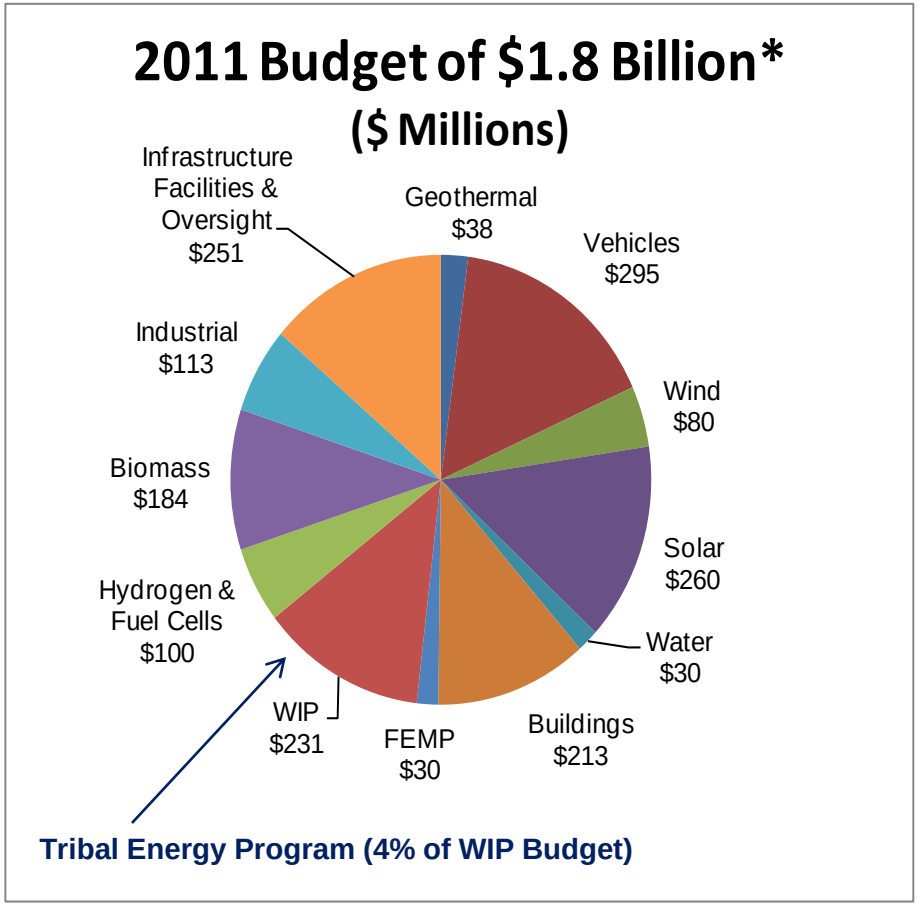
# Energy Efficiency and Renewable Energy

## Clean Energy for America's Future

**Invests in clean energy technologies that:**

- **Strengthen the economy,**
- **Protect the environment, and**
- **Reduce dependence on foreign oil**

**Leverages partnerships to transform the nation's economic engine to one powered by clean energy.**




* Operates a budget of $1.8 billion (2011) and responsible for investing more than $16 billion in Recovery Act funds

# *DOE's Tribal Energy Program*

## More than 2.4 million Native Americans live on or near tribal land (2000 U.S. Census)

- **The unemployment rate is more than double the national average and more than one-third live in poverty.** (Enterprise Foundation)
- **Total of 90,000 Native families are homeless or under-housed** (U.S. Commission on Civil Rights)
- **Over 40 percent live in overcrowded or dilapidated housing. Basic infrastructure, including water, sewer and roads, are often severely inadequate.** (Enterprise Foundation)

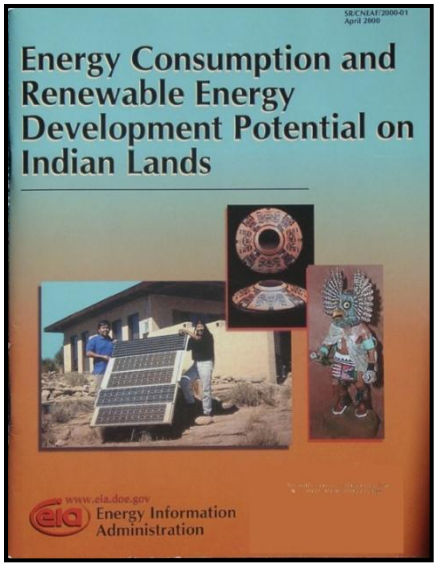
**An estimated 200,000 housing units needed in Indian Country**
(U.S. Commission on Civil Rights)

# *DOE's Tribal Energy Program*

## Many Native Americans Struggling to Stay Warm with Increasing Prices

**The most-burdened 10 percent of Indian households on reservations spend 20 percent or more of their income on electricity.** (2000 EIA Report)

**Over twice the percentage of U.S. households at the same income level.** (2000 EIA Report)




**Energy efficiency can return ~$2.51 in benefits for every $1 invested** (Based on DOE Wx Program)

# *DOE's Tribal Energy Program*

## Ten Times More Native Americans Without Access to Electricity (2000 EIA Report)

**"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

## 40% On-reservation Housing is Inadequate, Compared to 6% Nationwide (U.S. Commission on Civil Rights)

# *DOE's Tribal Energy Program*

## Why Invest in Good Construction?

"Whole building" design is a way of designing buildings by considering how the building structure, systems and surroundings work best together, to save energy and reduce environmental impact.

Generally considered are:

- Heating, cooling and ventilation
- Insulation, windows and lighting
- Climate
- Heat gain (unwanted heat)
- Building orientation, siting, and landscaping
- Innovative building materials.

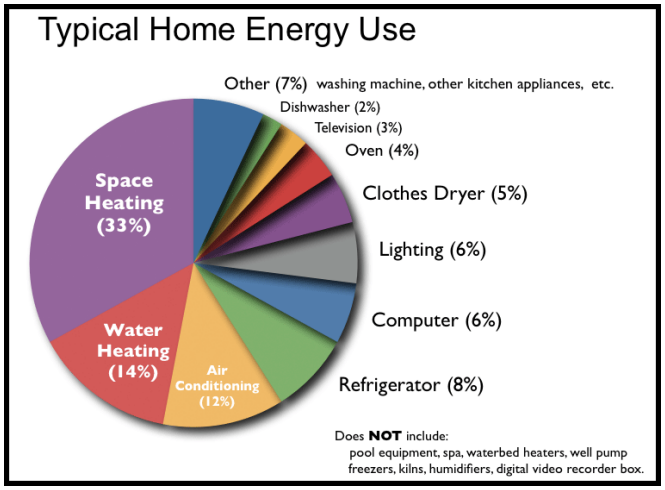
**Over a 30 year life span, only 2% (on average) of the overall investment in a building goes towards construction**

# DOE's Tribal Energy Program

## Why Invest in Energy Efficiency First?

**Existing buildings represent one of the best opportunities for immediate and cost-effective reductions in energy use and greenhouse gas emissions.**

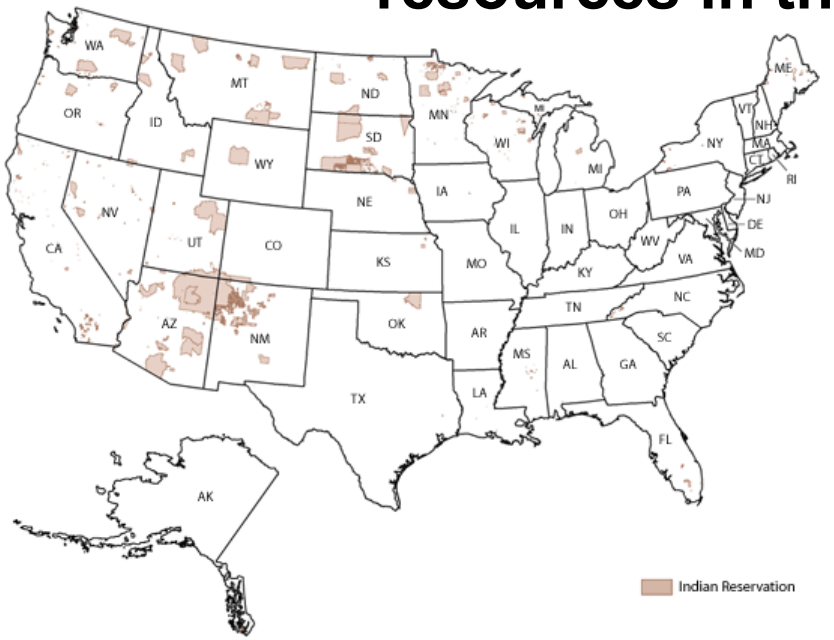
- **It's easier and cheaper to save energy than produce energy – "The low hanging fruit"**
- **Every $1 spent on efficiency saves at least as much as $2 spent on renewables**
- **Average of 30 percent of the energy used in commercial buildings goes to waste**




**Weatherization reduces the export of local energy dollars and keeps more money in the community**

# DOE's Tribal Energy Program

**"Indian land comprises 5% of the land area of the United States and contains an estimated 10% of all energy resources in the United States"**




**Tribal Trust Lands Comprise 55.7 Million Acres** (Per BIA)

**566 Federally Recognized Tribes**

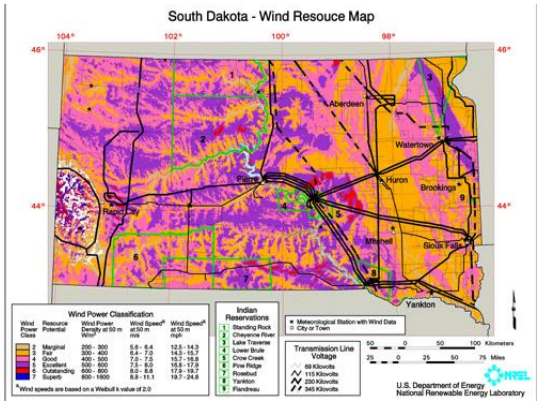
225 Tribes in Alaska (39% of total and19% of Alaskan population)

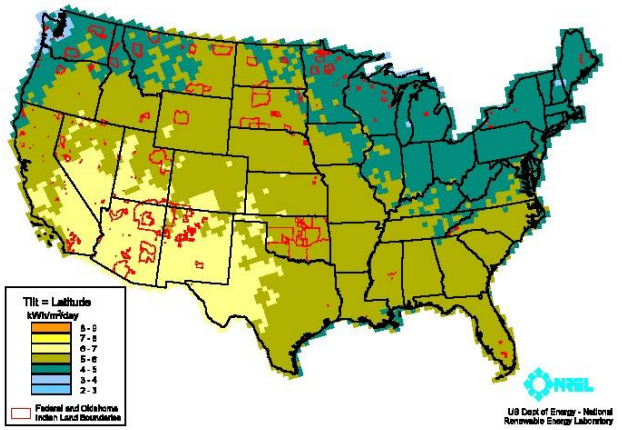
**Tribal energy resource development can support local economies and Tribal sovereignty**

# *DOE's Tribal Energy Program*

## Abundant Tribal Renewable Resources

**Wind Potential on Tribal Lands ~ 32% (1,331 Million MWH/yr) of the Total U.S. Annual Electric Generation* in Contiguous 48 States (NREL 2011)**




**Solar Electric Potential on Tribal Lands ~2 times (9,275 Million MWH/yr) of the Total U.S. Electric Generation* in Contiguous 48 States (NREL 2011)**

*** U.S. Electric Generation ~ 4,120 Million MWH/yr (2010)**

# *DOE's Tribal Energy Program*

**Promote Tribal energy sufficiency, economic development, and employment on Tribal lands through the use of renewable energy and energy efficiency technologies.**

## Authority

**Title XXVI of the Energy Policy Act (EPAct) of 1992 as amended**

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

Tribal Energy Program

# DOE's Tribal Energy Program

## Mission

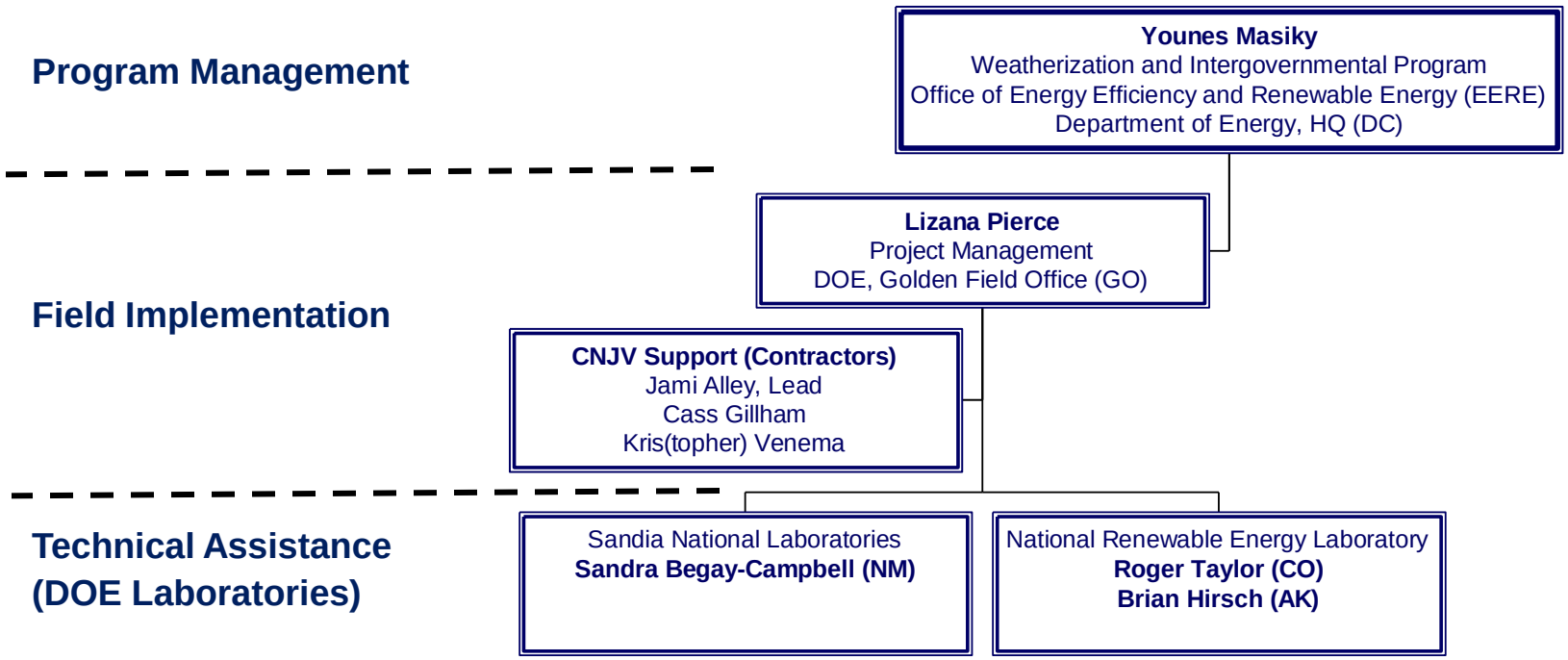
***Offering financial and technical assistance to Tribes through <u>government-to-government</u> partnerships that:***

1) ***Enable Tribal leaders to make informed decisions about energy choices;***
2) ***Bring renewable energy and energy efficiency options to Indian Country;***
3) ***Enhance human capacity through education and training;***
4) ***Improve local Tribal economies and the environment; and***
5) ***Make a difference in the quality of life of Native Americans.***

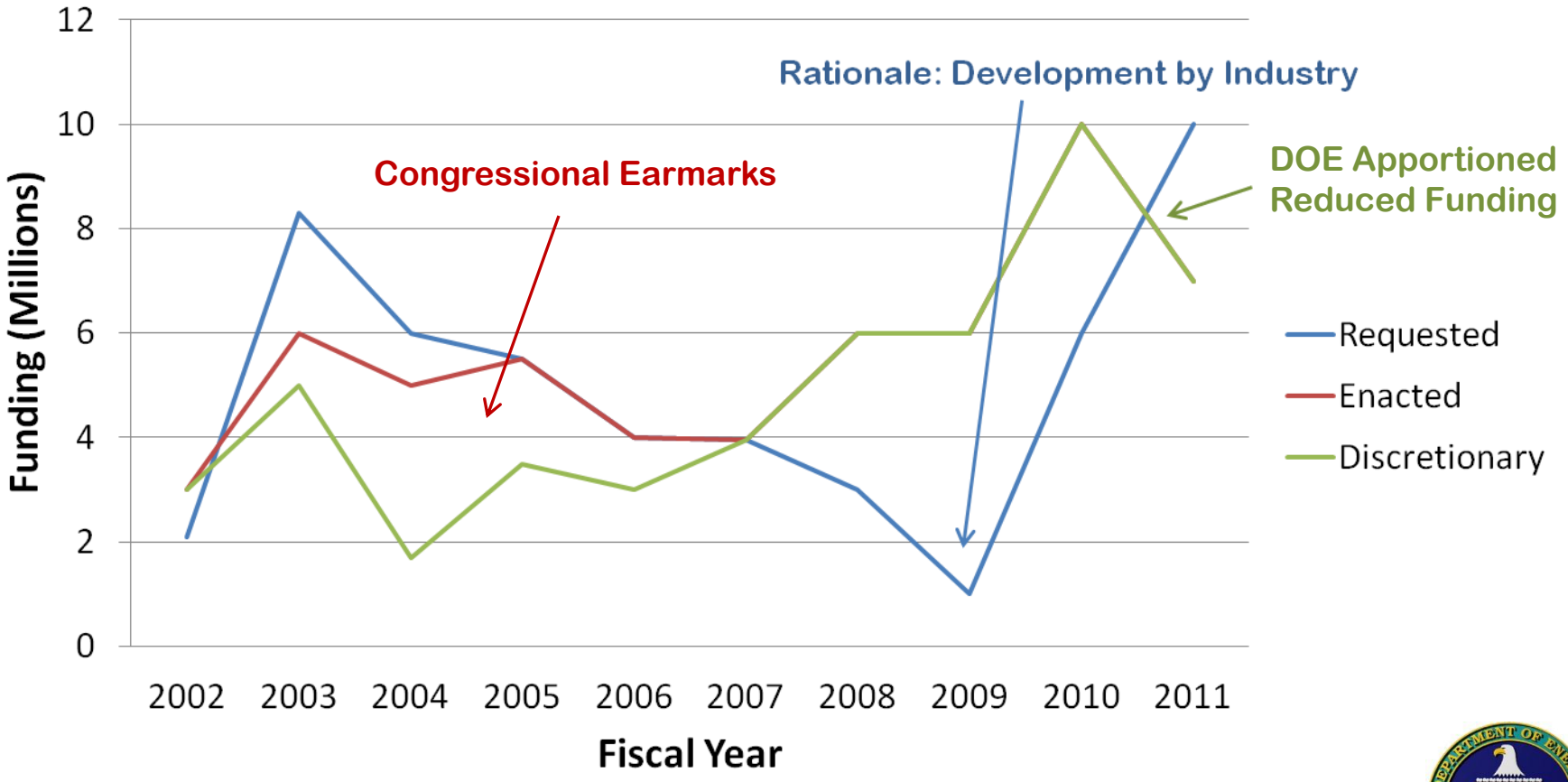
# DOE's Tribal Energy Program

## Organization

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

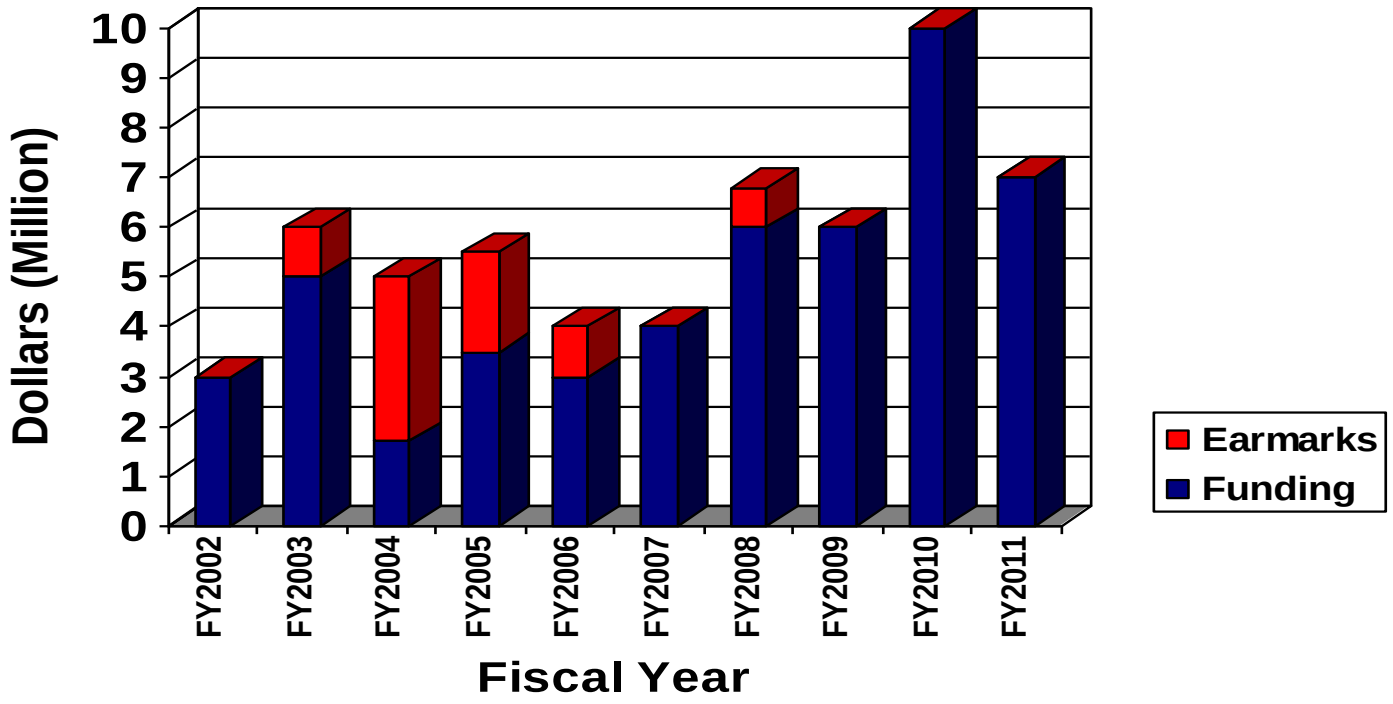


# Funding History



# *DOE's Tribal Energy Program*

# Program Funding History




***Program budget averages less than $6.0 million per year***

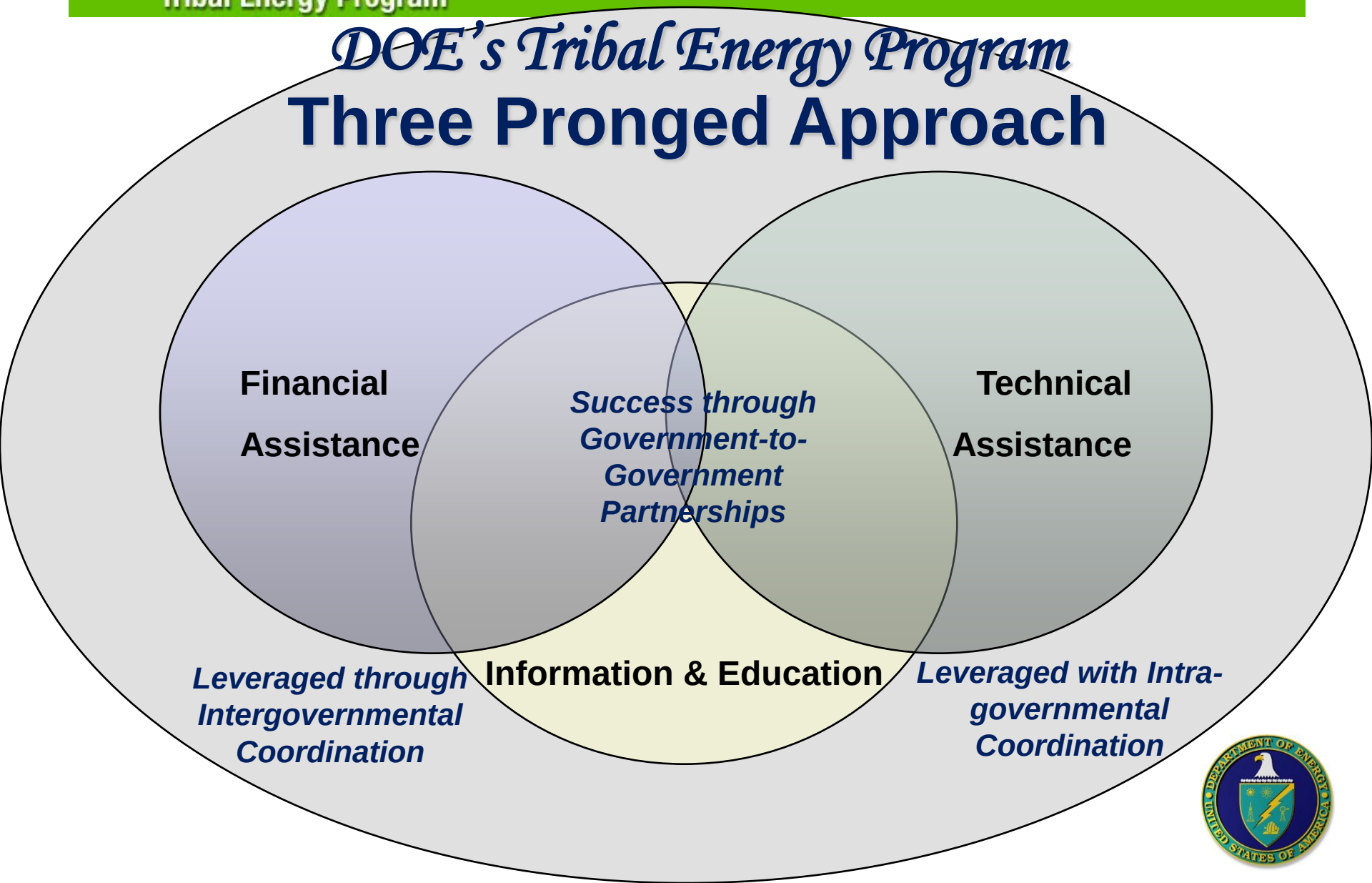
# Tribal Energy Program Funding*

| | FY2009 | FY2010 | FY2011 | FY2012 |
|---|---|---|---|---|
| DOE Request | $1.0 | $6.0 | $10.0 | $10.0 |
| Appropriated Funds | $6.0 | $10.0 | $7.0 | $10.0 |

***Per the President's FY2013 Budget Request, $7 million requested for Tribal Energy Program***

* Amounts in Millions

# DOE's Tribal Energy Program
# Three Pronged Approach



# Providing Financial Assistance

**Providing financial and technical assistance to Tribes for the evaluation and development of renewable energy resources and energy efficiency on Tribal Lands**

**Eligibility:**

Federally-recognized Tribes, Tribal Energy Resource Development Organizations, or Tribal Consortia (two or more entities, at least one of which is an Indian Tribe).

**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.

***All Funds Awarded through a Competitive Process***

# FY2011 Financial Assistance

## Financial Assistance to Spur Deployment in Indian Country

- **First Steps Toward Developing Energy Efficiency and Renewable Energy on Tribal Lands**
  - Strategic energy planning
  - Energy options analysis
  - Energy organization development
  - Human capacity development
- **Energy Efficiency Development and Deployment in Indian Country**
  - Feasibility studies
  - Installation of energy efficiency improvements
- **Renewable Energy Development and Deployment in Indian Country**
  - Feasibility studies
  - Development (pre-construction) activities
  - Deployment (construction) activities

Solar arrays on home on the **Navajo Nation**

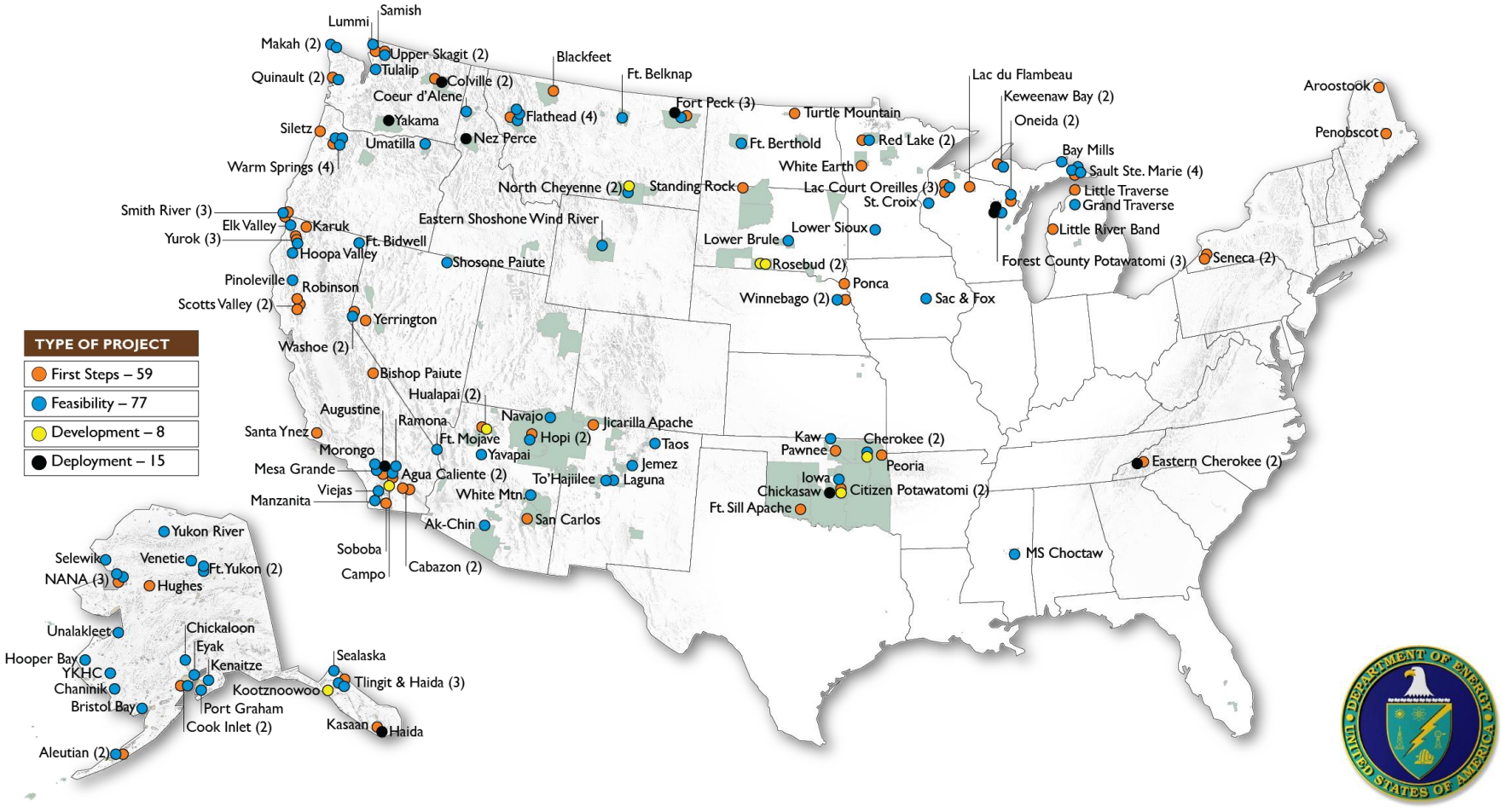
# Competitive Process (2002-2011)

## Accomplishments

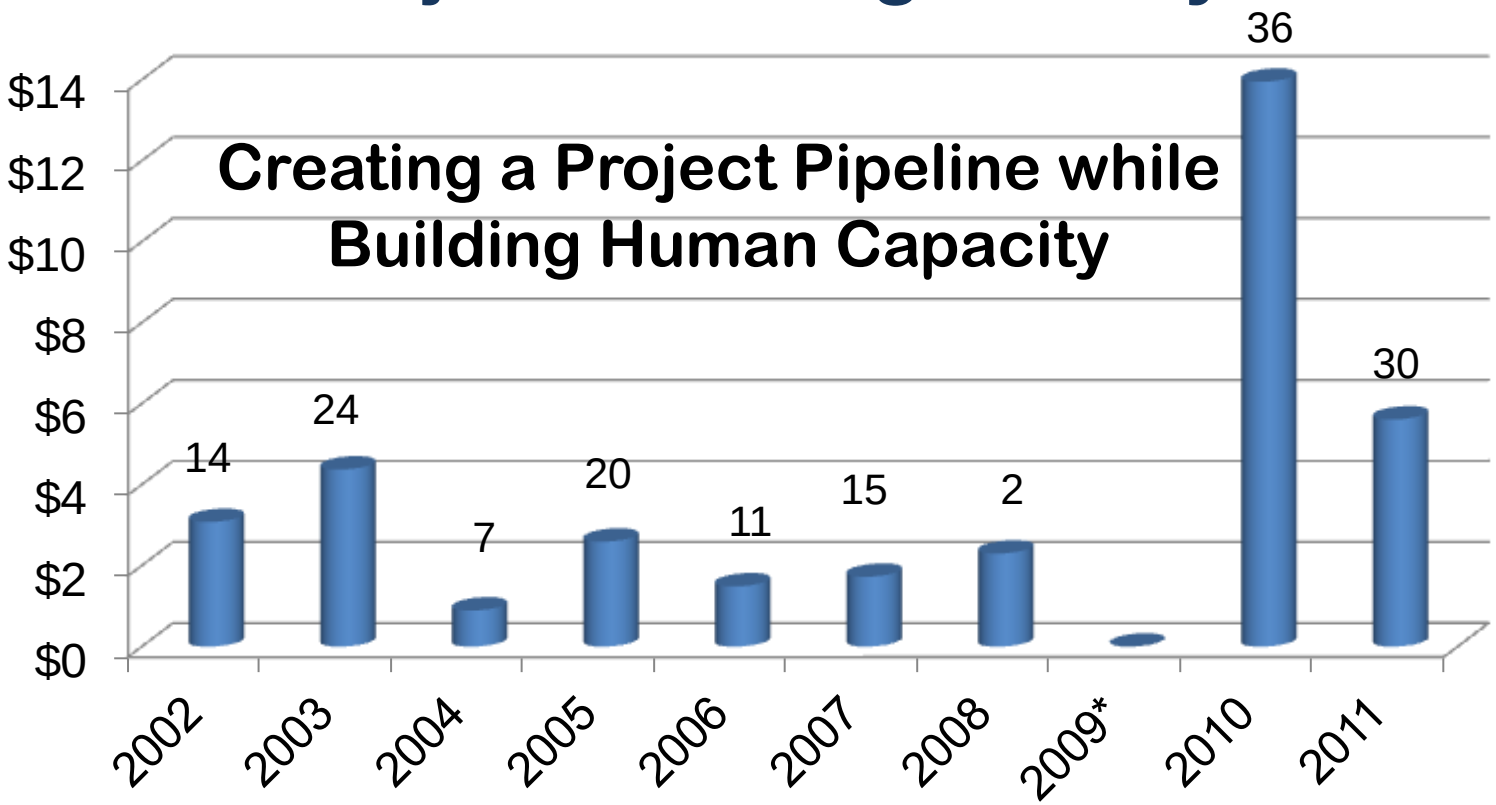
- **15 Funding Opportunities Announcements issued**
- **Total of 565 applications accepted** (timely and non-duplicates)
- **85% of meritorious applications funded** (Total of 177 of 208, including 18 planned in FY2012)
- **Funded 31.3% of all applications received** (using multi-year funds, if needed). **DOE average is ~5 to 10%.**
- **Funded 114 Different Tribes (20% of the 566 Tribes)**

**73% of Discretionary Funding Directly to Tribes**

# DOE has Funded 159 Tribal Energy Projects Investing $36 Million *(2002-2011)*



# Project Funding History




* FY2009 funds carried over and used to fund projects awarded in FY2010

## Investment in Tribal Energy Sufficiency

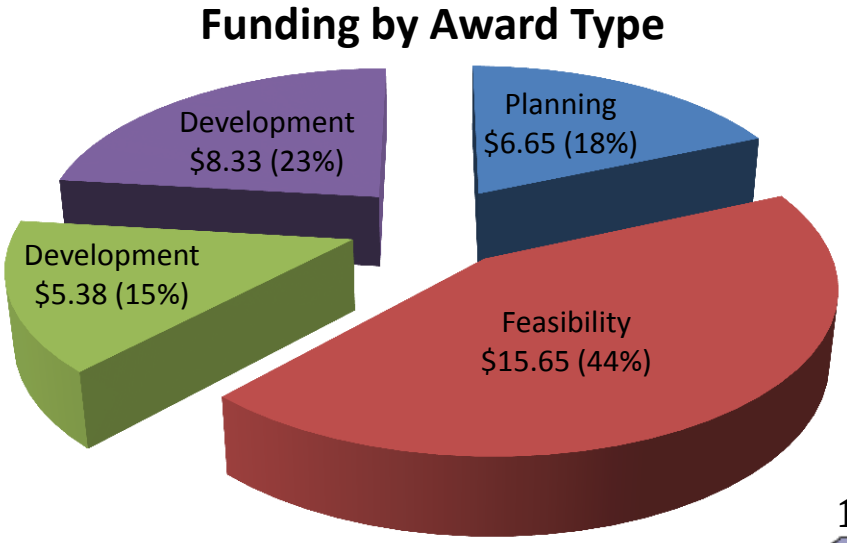
# DOE Investment Leveraged

| TRIBAL ENERGY PROGRAM FUNDING HISTORY | | | | |
|---|---|---|---|---|
| **Fiscal Year** | **Number of Awards** | **DOE Funding** | **Cost Share** | **Project Costs** |
| 2002 | 14 | $3.08 | $0.76 | $3.84 |
| 2003 | 24 | $4.37 | $1.11 | $5.48 |
| 2004 | 7 | $0.89 | $0.18 | $1.07 |
| 2005 | 20 | $2.59 | $0.94 | $3.53 |
| 2006 | 11 | $1.49 | $0.56 | $2.05 |
| 2007 | 15 | $1.73 | $0.54 | $2.27 |
| 2008 | 2 | $2.30 | $2.30 | $4.60 |
| 2009* | - | 0 | 0 | 0 |
| 2010 | 36 | $13.96 | $22.40 | $36.36 |
| 2011 | 30 | $5.60 | $1.81 | $7.41 |
| **TOTAL** | 159 | $36.01 | $30.61 | $66.62 |

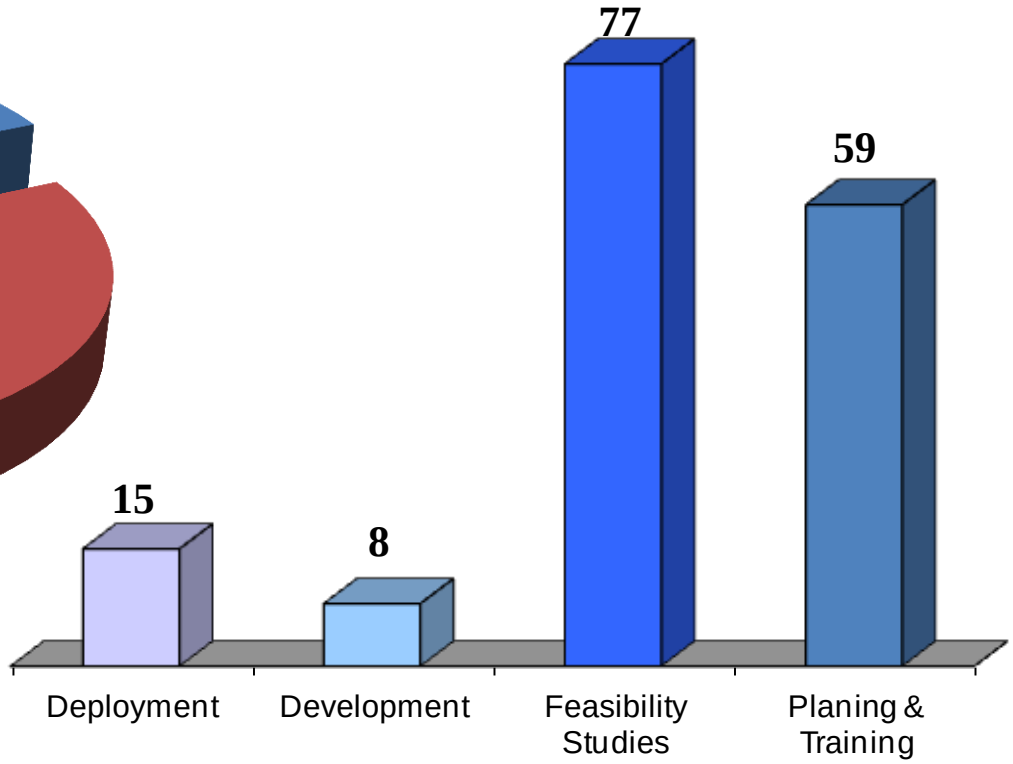
* FY2009 funds carried over and used to fund projects awarded in FY2010

**50% Cost Share (100% Match) Required for Development & Deployment Projects**

# Tribal Energy Project Pipeline

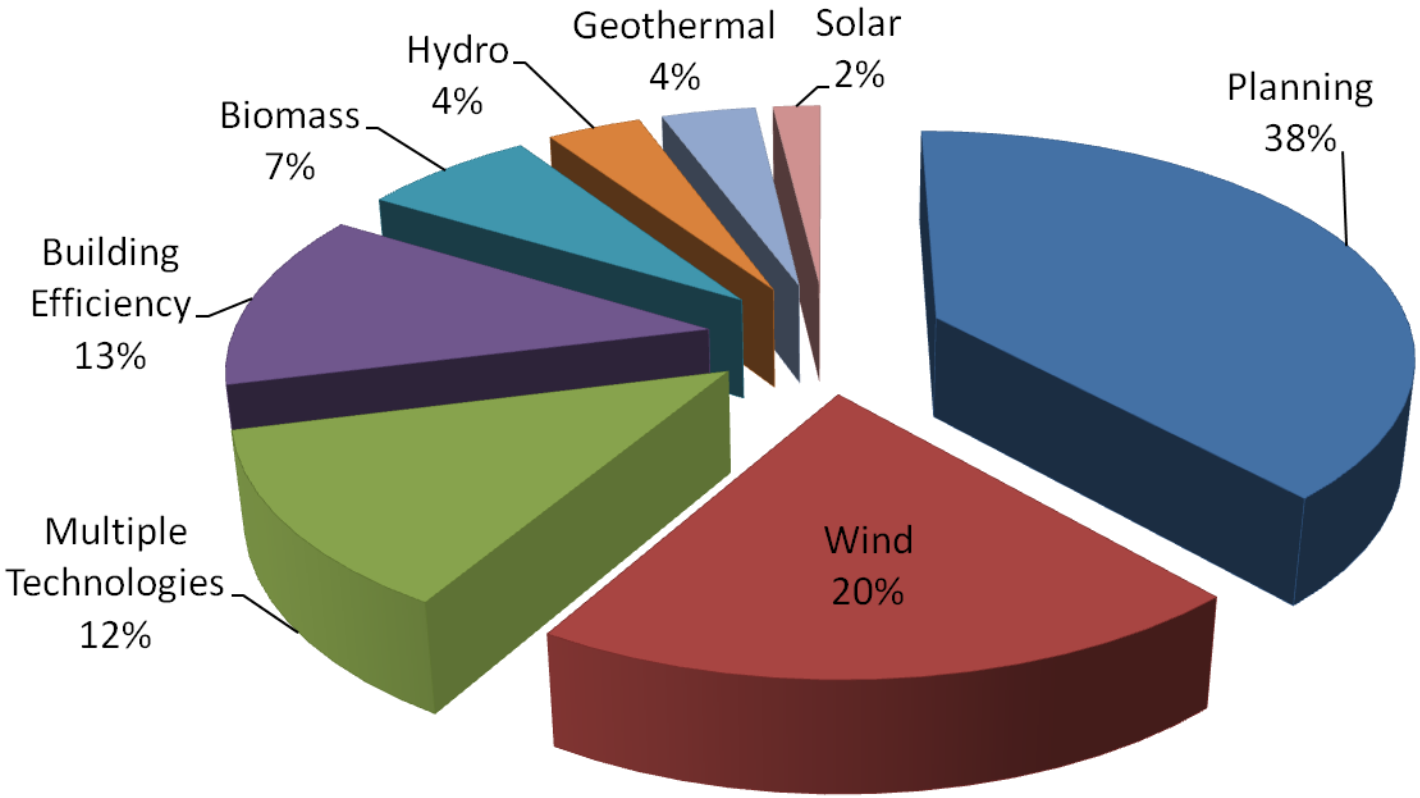



***Clean Energy Projects in Various Stages of Development***



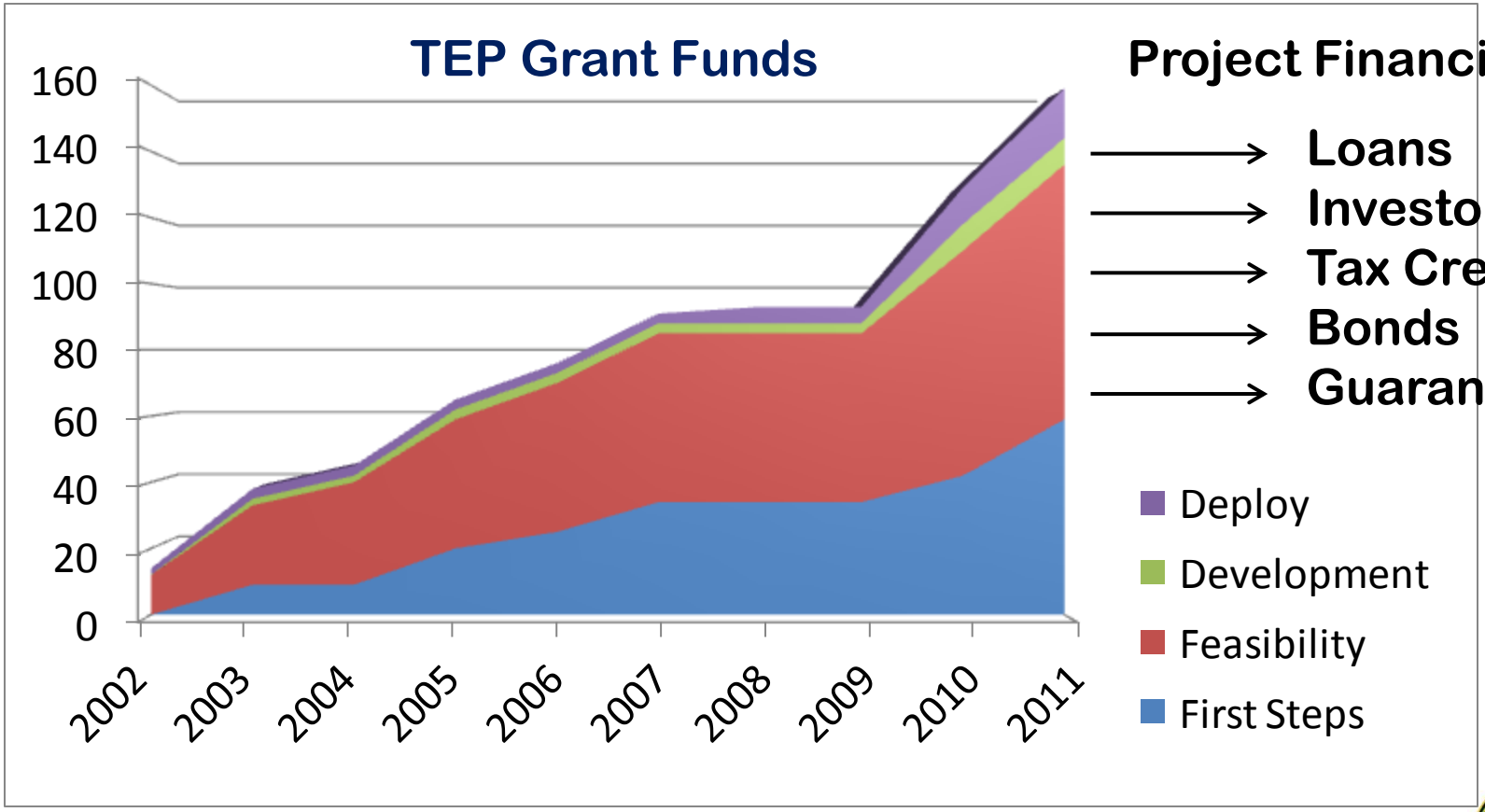

***Assisting Tribes Fulfill <u>Their</u> Energy Vision***

# Tribal Energy Project Pipeline




***Diversity of Resources and Interests***

# Tribal Energy Project Pipeline




**Enabling Economic Development and Employment**

# Project Accomplishments

## *Renewable Energy Deployment in Indian Country*

**Six (6) Renewable Energy Deployment Projects**

- **Over 6MW of new generation,**
- **Savings of 280,000 gallons of diesel and propane, and**
- **One substation installation (Colville), estimated to save $290,000 per year**

**Colville** Indian Power and Veneer Energy Substation (WA)

**Council of Athabascan Tribal Government (CATG)** Biomass Heating Project in Fort Yukon (AK)

**Ramona Band** (CA) Renewable Powered Eco-tourism Project

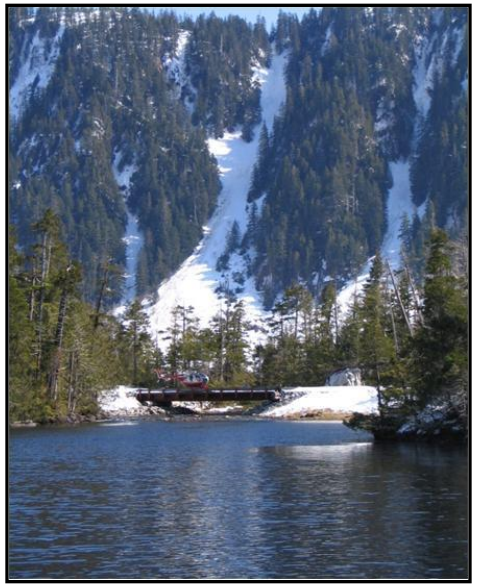
# Project Accomplishments

## *Renewable Energy Deployment in Indian Country*

**Renewable Energy Deployment Projects (Continued)**

**Chaninik Wind Group's**
Thermal Heating Project (AK)

**Assiniboine & Sioux Tribes** install two 50 kW wind turbines on the Fort Peck Reservation



**Haida Corp's**
Reynolds Creek 5MW Hydro Project in Angoon (AK)

# Project Accomplishments

## *Deployment to Save Energy for the Future*

**Nine (9) Building Retrofit Projects**

- **Retrofitting 64 Tribal buildings,**
- **Savings of over $600,000 per year,**
- **Minimum of 30% reduction in use, and**
- **Over 10,000 MBTUs saved**

Lighting upgrades could save the **Chickasaw Nation** (OK) $180,000 per year

**Forest County Potawatomi Community** will retrofit Wunder Hall, a historic building on Concordia Campus (WI)


**Forest County Potawatomi Community** installed 1,664 new LED lights for a 54% reduction in energy use (WI)

# Project Accomplishments

## *Deployment to Save Energy for the Future*

**Building Retrofit Projects (Continued)**

**Alaska Native Tribal Health Consortium (Selawik, AK)** will upgrade sanitation facilities

**Yukon River Inter-Tribal Watershed Council (YRITWC)** installing energy efficiency measures for the Nunamiut people of Anaktuvuk Pass to reduce energy use by 34%


**Central Council Tlingit & Haida Indian Tribes of Alaska (CCTHITA)** retrofitting 4 buildings for projected annual savings of $52,271 (AK)

# Project Accomplishments

## *Renewable Energy Development*

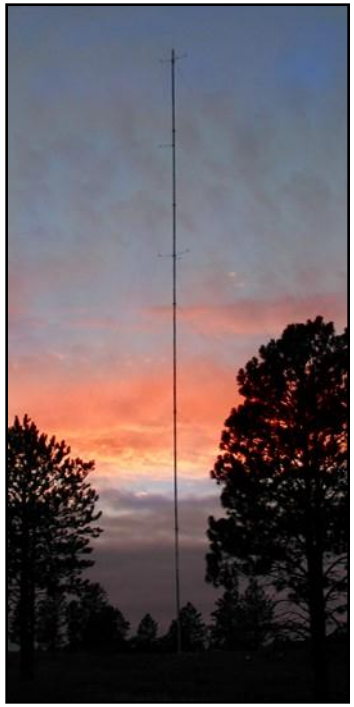
**Eight (8) Renewable Energy Development Projects**

- **Over 360 MW of new renewable generation, if deployed**

**Campo Band's** Wind Farm
DOE funding Phase II
(160 MW)

**Hualapai** (AZ) Exploring "large-scale" solar and wind development

**Northern Cheyenne Tribe** completed wind feasibility study and began pursuing wind 30MW wind farm (anemometer at sunset, MT)



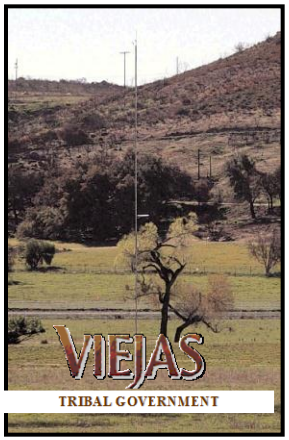
**Rosebud Sioux's** (SD) Little Soldier Turbine - Pursuing a 30 MW and 190 MW Wind Farm

# Project Accomplishments

## *Assessing Indigenous Resources*

**Sixty-five (65) Renewable Energy Feasibility Studies**
- **Over 500 MW of potential new generation, if developed**

**Kaw Nation** Wind Resource Assessment (OK)




**Viejas** Tribal Government Tribal Utility and Wind Study (CA)

**Pueblo of Jemez** Geothermal Feasibility Study (NM)


**Makah Indian Nation** Wind Feasibility Study (WA)


**Three Affiliated Tribes** Wind Feasibility Study (ND)


**St. Croix Chippewa** Biomass Study (WI)

# Project Accomplishments

## *Assessing Indigenous Resources*

**Twelve (12) Efficiency Feasibility Studies**

- **Energy audits of over 240 tribal buildings**
- **30% energy savings, if implemented**

**Oneida Nation's** Housing Authority will conduct energy audits on 44 buildings (WI)


**Sault Ste Marie's** Tribal Health Clinic and Community Center, one of 45 buildings which will have energy audits (MI)

**Tlingit Haida Regional Housing Authority (THRHA)** to conduct energy audits on over 50 buildings in Southeast Alaska (AK)

# Project Accomplishments

## *Planning for the Energy Future*

**"First Steps" Grants (59)**

- **Fourteen (14) human capacity grants,**
- **Twenty-six (26) Tribes developing energy plans,**
- **Thirteen (13) Tribes developing energy organizations, and**
- **Six (6) Tribes exploring energy options**

**Ponca Tribe** conducting an energy analysis and conducting community awareness under their "Project Earth Lover" Campaign (NE)


**Seneca Nation** conducted strategic energy planning (NY)



**Cabazon Band** of Mission Indians Energy Plan (CA)


**San Carlos Apache** conducting an energy options analysis (AZ)

# Building Local Skills and Knowledge

## *Over 150 Tribal Members Trained*

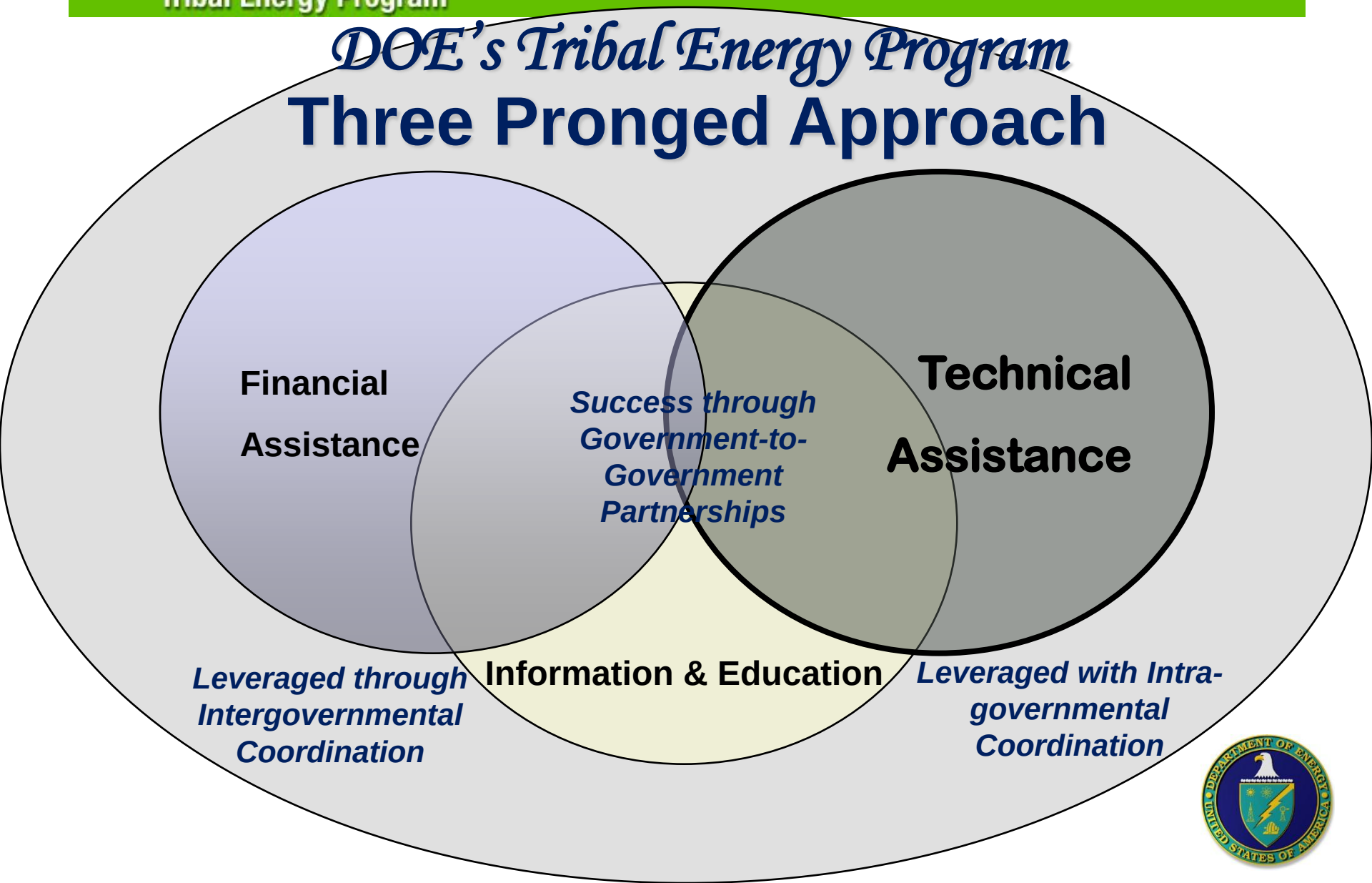
**Keweenaw Indian Community** trained members in weatherization: 9 energy auditors; 8 envelop professionals; and 38 air sealing insulation installers. Logo contest winner shown above.

**Cook Inlet Tribal Council** training two apprentices in weatherization (4,000 hour program). Apprentices to graduate February 2012 and be hired to serve local communities.

**Scotts Valley Band** partnered with 12 Tribes in Lake and Mendocino Counties to build local capacity through education and training. Twenty-three members trained and 3 hired by the Tribes.

# DOE's Tribal Energy Program

## Three Pronged Approach

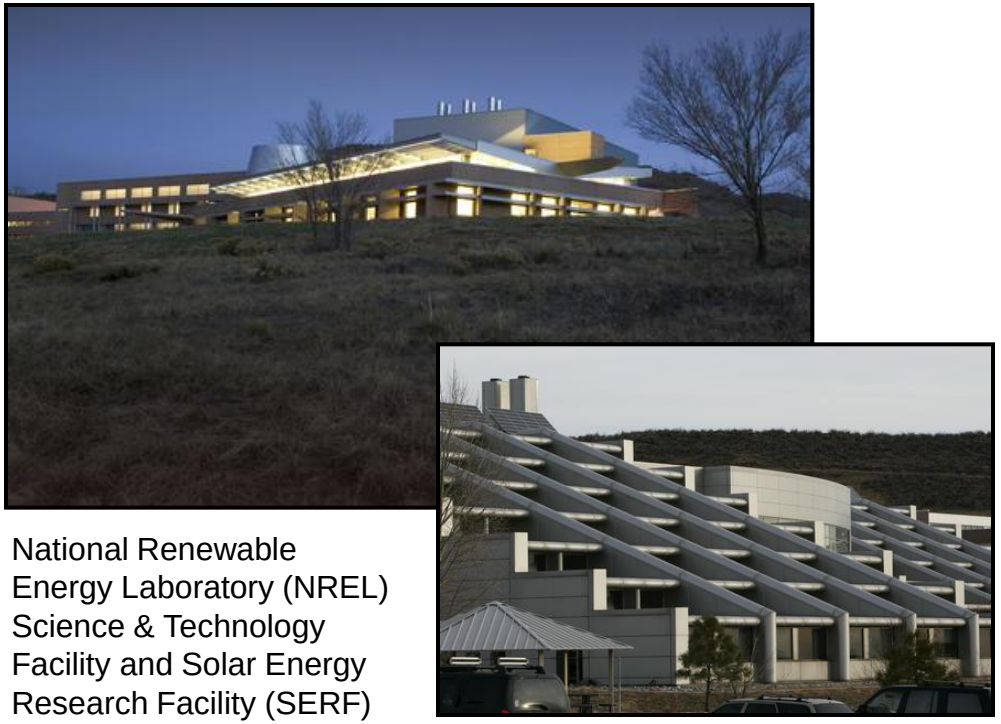


# Providing Technical Assistance

## Technical Assistance

- Technology Advice
- Models and Tools
- Resource Maps
- Strategic Energy Planning
- Pre-Feasibility Transmission Studies
- Project Support
- Economic Evaluation
- Design Review
- Special Studies

Western Area Power Administration



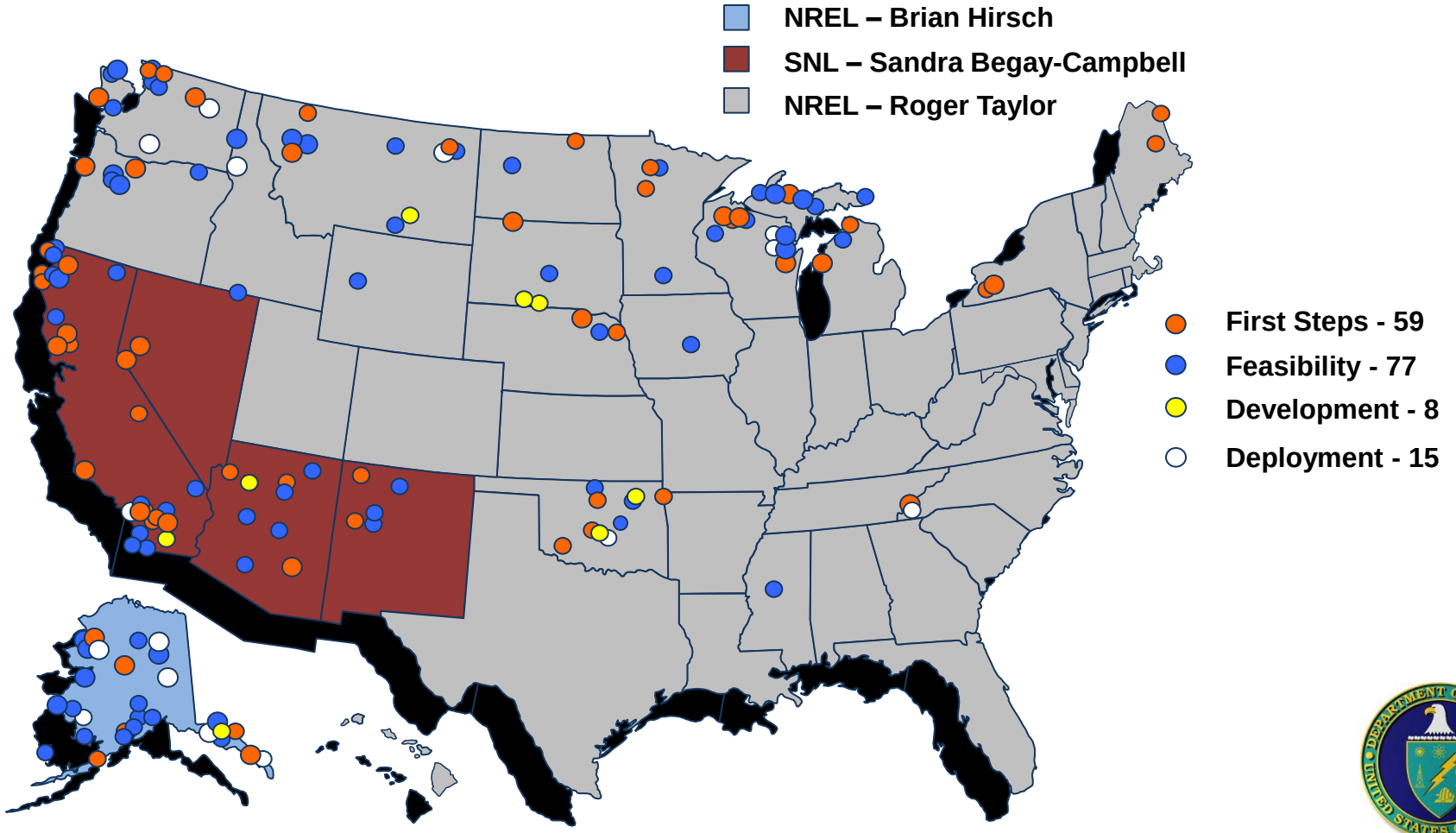
National Renewable Energy Laboratory (NREL) Science & Technology Facility and Solar Energy Research Facility (SERF)

NREL

**Assisting Tribes with expertise from DOE's National Laboratories**

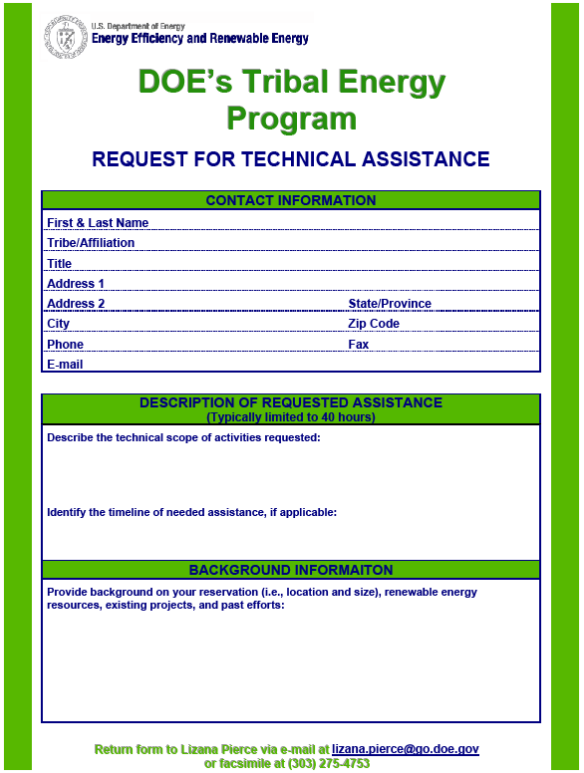
Sandia National Laboratories

# Technical Assistance Regions



# Technical Assistance Requests for Tribes

- Offered within available resources
- The application process is a quick and easy on-line process
- The value of technical assistance for Tribes is typically limited to 40 hours and may include, but is not limited to, renewable energy technology information, renewable resource information, energy efficiency techniques, project support, system performance modeling, policy information, design review, special studies, strategic energy planning, pre-feasibility transmission studies, and training.



U.S. Department of Energy
Energy Efficiency and Renewable Energy

**DOE's Tribal Energy Program**

**REQUEST FOR TECHNICAL ASSISTANCE**

| CONTACT INFORMATION | |
|---|---|
| First & Last Name | |
| Tribe/Affiliation | |
| Title | |
| Address 1 | |
| Address 2 | State/Province |
| City | Zip Code |
| Phone | Fax |
| E-mail | |

| DESCRIPTION OF REQUESTED ASSISTANCE (Typically limited to 40 hours) |
|---|
| Describe the technical scope of activities requested: |
| Identify the timeline of needed assistance, if applicable: |

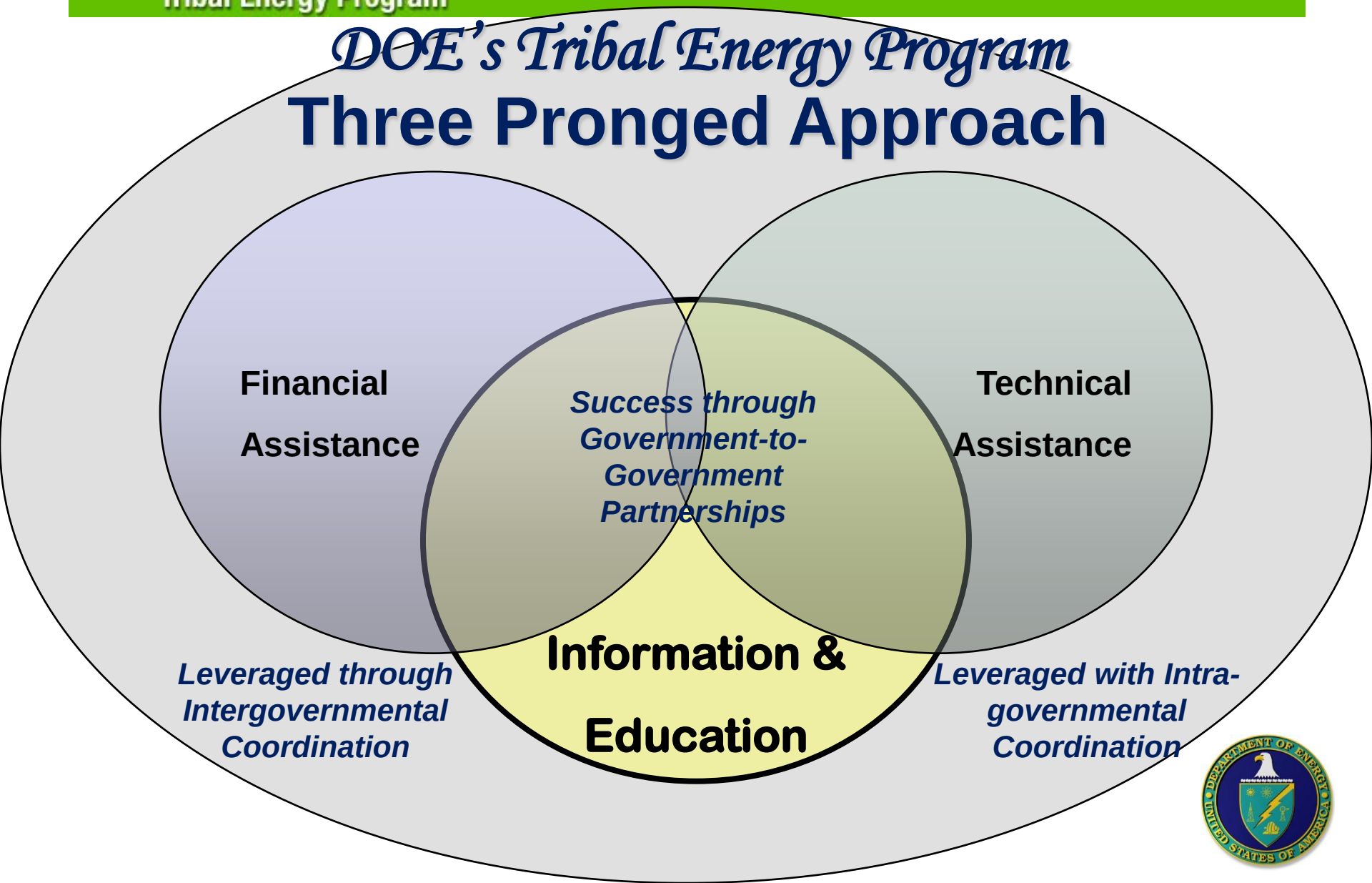
| BACKGROUND INFORMAITON |
|---|
| Provide background on your reservation (i.e., location and size), renewable energy resources, existing projects, and past efforts: |

Return form to Lizana Pierce via e-mail at lizana.pierce@go.doe.gov
or facsimile at (303) 275-4753

***Complete Request Form On-line at***
***www.eere.energy.gov/tribalenergy/tech_assistance.cfm***

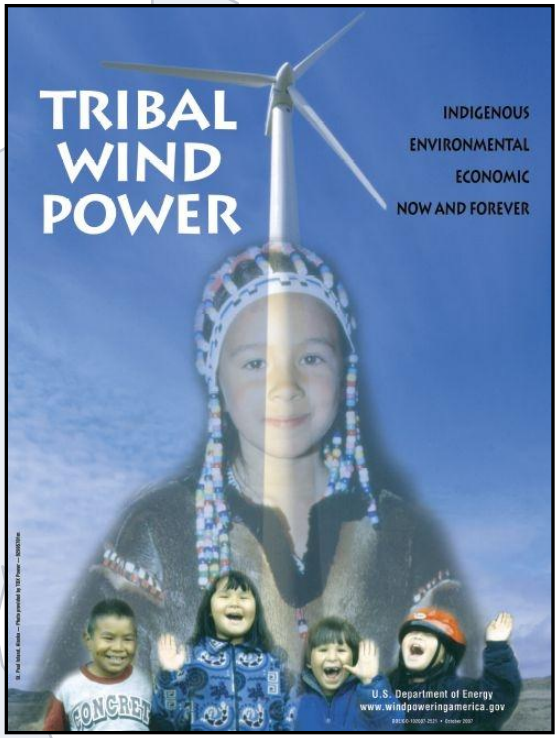
# DOE's Tribal Energy Program

## Three Pronged Approach



# Education & Training

- **Annual Program Review**
- **National Workshops**
  - **Business Development and Financing**
  - **Renewable Energy and Energy Efficiency**
- **Tribe Specific or Regional Trainings**
  - **Upon Request and within available resources**




***Building Human Capacity in Indian Country***

# Annual Program Review

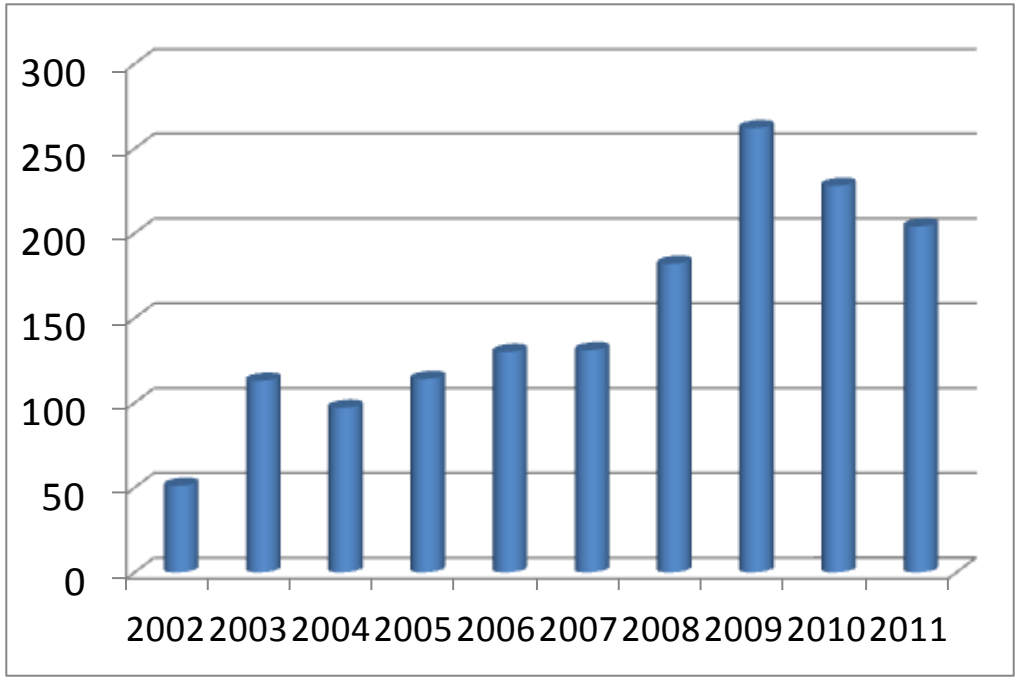
## Unique Tribal Forum for Sharing and Learning

- Forum for Tribes to meet and learn from other Tribes pursuing energy sufficiency through renewable energy and energy efficiency, and share their successes
- Networking & learning opportunity
- Tribal project presentations – lessons learned
- Forty to fifty (40-50) Tribal energy projects presented
- Typically 200-250 participants

**Annual Review November 13-16, 2012 (Denver, CO)**

# Annual Program Review

## Unique Tribal Forum for Sharing and Learning




**Over 1,500 attendees since 2002**

**Over 390 tribal project presentations (posted)**

# Annual Program Review

## Unique Tribal Forum for Sharing and Learning

"It was a lot to take in, in one week, but I feel that the participant list was a great idea, because it gives address and contact number. This was our first tribal energy program. Its been a great energy program, thank you very much!" (2010)

"This conference was very informative. I learned a lot from these meetings. It's good to hear from other Tribes struggles and strengths." (2010)

"More community energy efficiency education more integrated into the program. Excellent models thanks!" (2010)

"Topics were great, made many contacts that are already working with us!" (2010)

# Student Summer Internships
# Tribal Professional Development

## Internship

- 12 week internships at Sandia National Laboratories

## Hands-On Experience

Interns gain experience with the following renewable energy systems:

- On-grid photovoltaic installations — New Mexico
- Off-grid photovoltaic electricity system — Arizona and New Mexico
- Off-grid PV/small wind hybrid system — Arizona, Utah (Navajo), and California (Ramona)
- Large-scale commercial wind farm — New Mexico (Taiban Mesa)
- Solar power tower — New Mexico (Sandia Labs)
- Distributed energy resource systems: large PV array, micro-turbine, fuel cell, large battery bank — New Mexico (Sandia Labs)

## Interns

- Twenty-three (23) interns sponsored since 2002

Deborah Tewa (certified electrician & solar installer) at Sandia's PV Laboratory (2002)

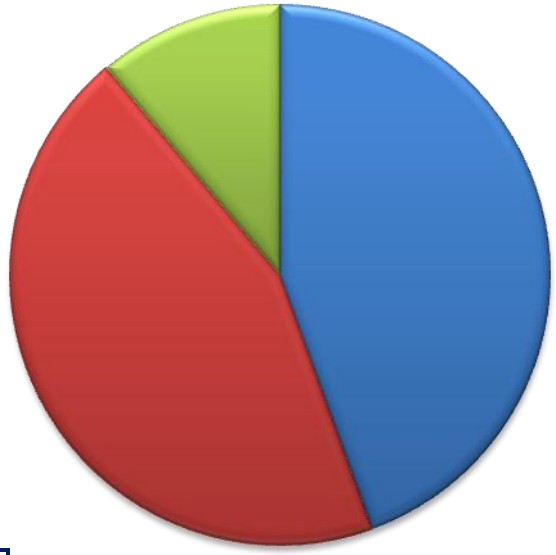
2008 Interns' participated in PV installation & training workshop (AZ-Hopi)

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

# Tribal Energy Program

**Intern Gathering at Southwest RE Conference, Flagstaff, AZ**
Pictured: Suzanne Singer, Gepetta Billie, Sandra Begay-Campbell, Carson Pete, Terry Battiest, Prestene Garnenez

## Type of Work for Former Interns



**Tribal Related Work**
- Tribal Energy Consultant
- Navajo Tribal Utility Authority
- AZ RE Community College
- RE Technical Company
- Inst. Of American Indian Art
- Udall Foundation
- NM Council of Governments

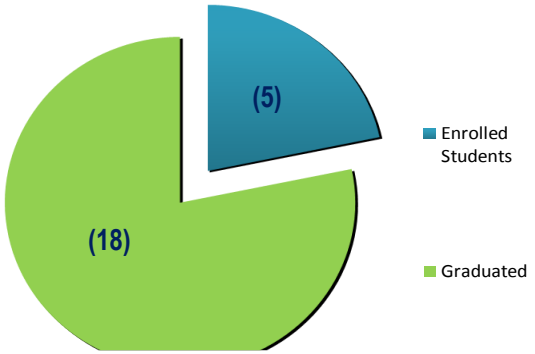
**Non-tribal Engr/ Science Work**
- Sandia Nat'l Laboratories
- Lawrence Livermore Nat'l Labs
- DOE Golden Field Office
- Lockheed Martin
- INTEL

**Seeking Employment**
- 2011 Summer Graduates

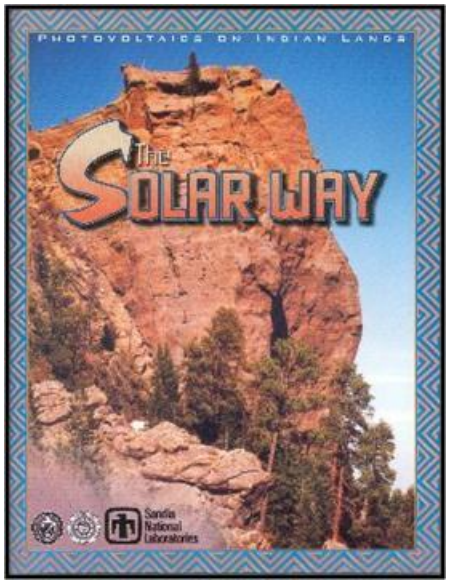
**2002 - 2011**

- **23 undergraduate & graduate interns have participated.**
- **14 different Tribal affiliations**
- **12 different majors**
- **30% of the interns were converted to year-round status (7 of 23)**
- **13% of the interns were hired as FTEs or Sandia contractor (3 of 23)**

## Graduation Rate of Interns



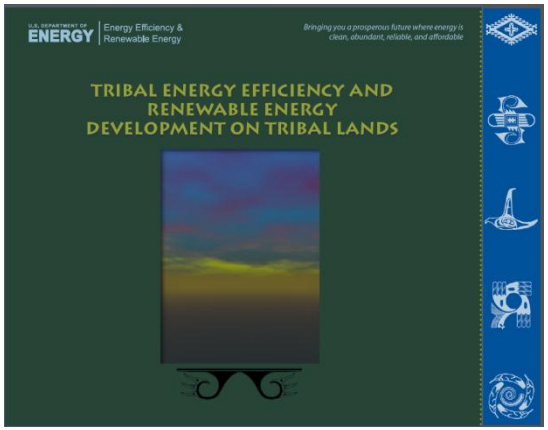
# Information Resources




Tribal Energy Website



Guide to Tribal Energy Development



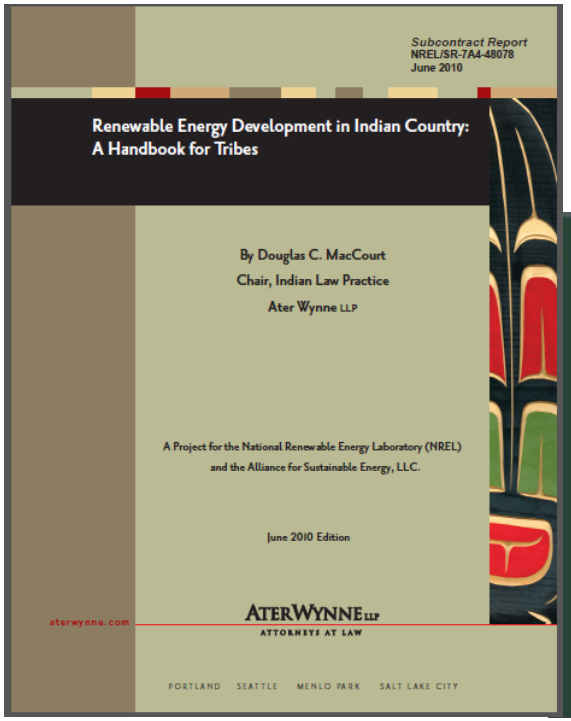

**Join Our Email List**

**For Information on funding opportunities, workshops & training, and other Tribal energy information**

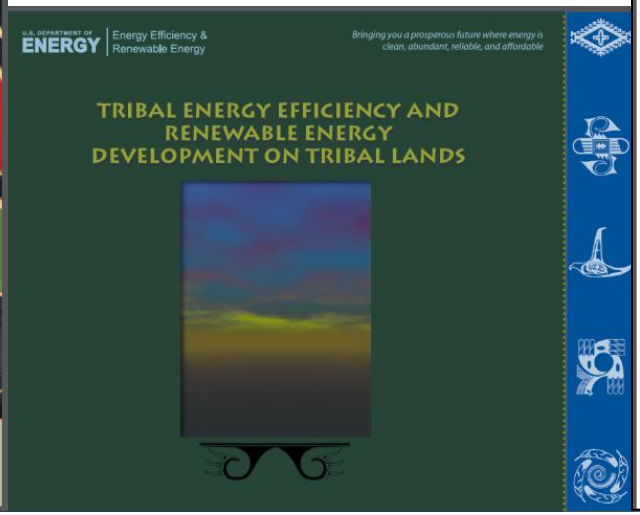
**Email tribal@go.doe.gov**

# Informational Material

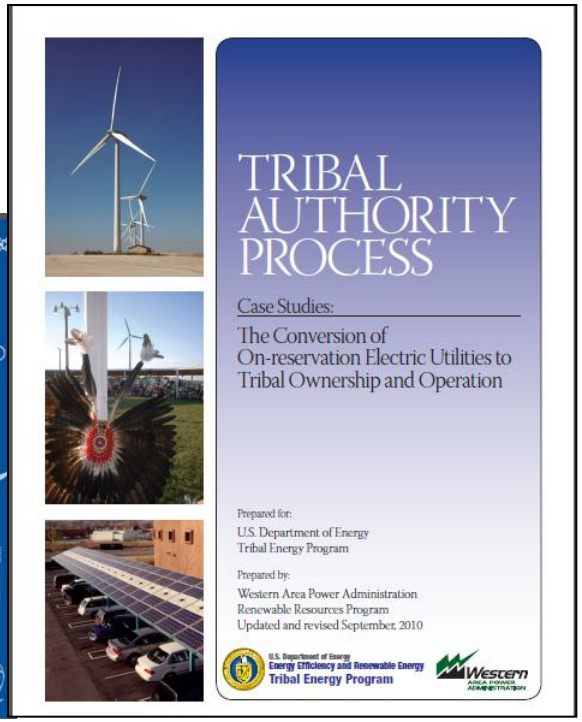
## Program Publications




A Handbook: Renewable Energy in Indian Country




Program Brochure




Tribal Utility Case Studies

**All Material Posted on Program Website**

# Informational Materials

## Short Courses

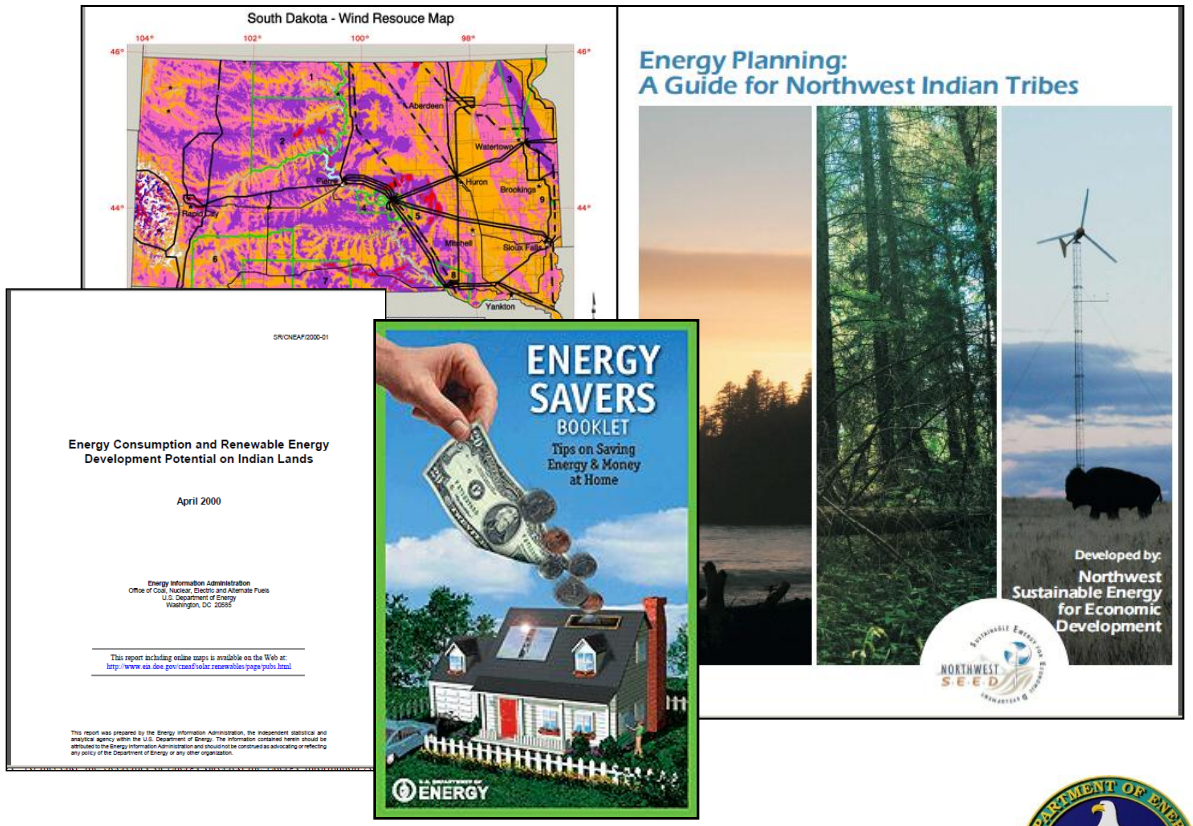
- Analysis & Economics
- Business & Financing
- Community Development
- Demand-side Options
- Renewable Technologies

## Handbooks & Guides

- A Guide: Energy Planning
- Energy Consumption and Renewable Energy Development on Indian Lands
- A Handbook: Renewable Energy in Indian Country

## Tools & Models

- Resource Potential Maps
- Reservation Specific Wind Maps




**All Material Posted on Program Website**

# Informational Material

## Free Tribal Webinar Series (2011-2012)

In cooperation with the DOE's Office of Indian Energy Policy and Programs (OIEPP), the U.S. Environmental Protection Agency's (EPA's) Green Power Partnership Program, and Western Area Power Administration (WAPA)

**Past Webinars**

- Overview of the U.S. Environmental Protection Agency's Green Power Program (1/25/2012)
- Overview of US Department of Energy Power Marketing Administrations (11/30/2011)
- Challenges and Opportunities with Tribal Renewable Energy Development (8/17/2011)
- Understanding the Interconnection and Transmission Service Queues (3/28/2012)
- Today's Energy Supply — Yesterday's Grid (5/30/2012)
- Grid Reliability — Impacts to Tribal Renewable Projects (7/25/2012)

**Upcoming Webinars**

- Understanding the Interconnection and DOE Office of Indian Energy's START Program Status Updates (9/28/2012)

## Previous Webinars

- Technical Assistance for Tribes (11/15/2010)
- Hydropower 101 (9/27/2010)
- Geothermal Energy 101: Characteristics, Development, and Utilization of Geothermal Resources (8/27/2010)
- Wind Energy 101: Fundamentals, Applications, and Markets (7/23/2010)
- Tribal Energy Project Development Through ESCOs (4/21/2010)
- Tribal Energy Program Monthly Webinar: Solar Energy - Capturing and Using Power and Heat from the Sun (3/24/2010)
- Tribal Energy Strategic Planning (2/24/2010)
- Planning and Strategy Development for Tribes (6/12/2009)
- Planning and Strategy Development for Tribes (5/28/2009)
- Planning and Strategy development for Tribes (5/18/2009)

**All Webinar Information Posted**

# Information Dissemination

As subscribers, Tribes receive periodic newsletters and bulletins about:

- The Tribal Energy Program's training opportunities and events
- Funding opportunities through our program and other federal programs and agencies
- Other news and information related to Tribal energy.

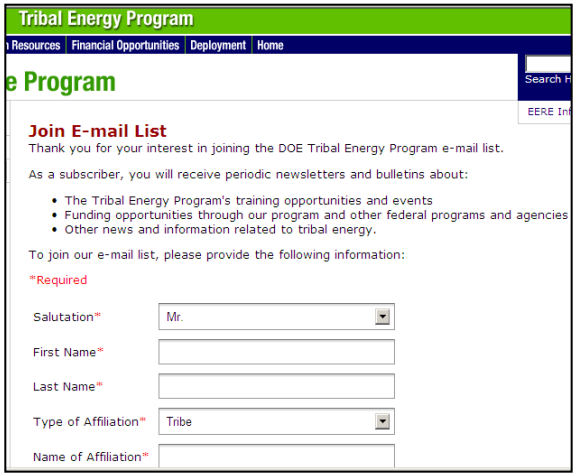
**Over 3,000 Subscribers to Email List**

**100's of Email Notices Sent Each Year**

**Distributed through Other Tribal and Agencies (BIA, EPA, ONAP, USDA)**

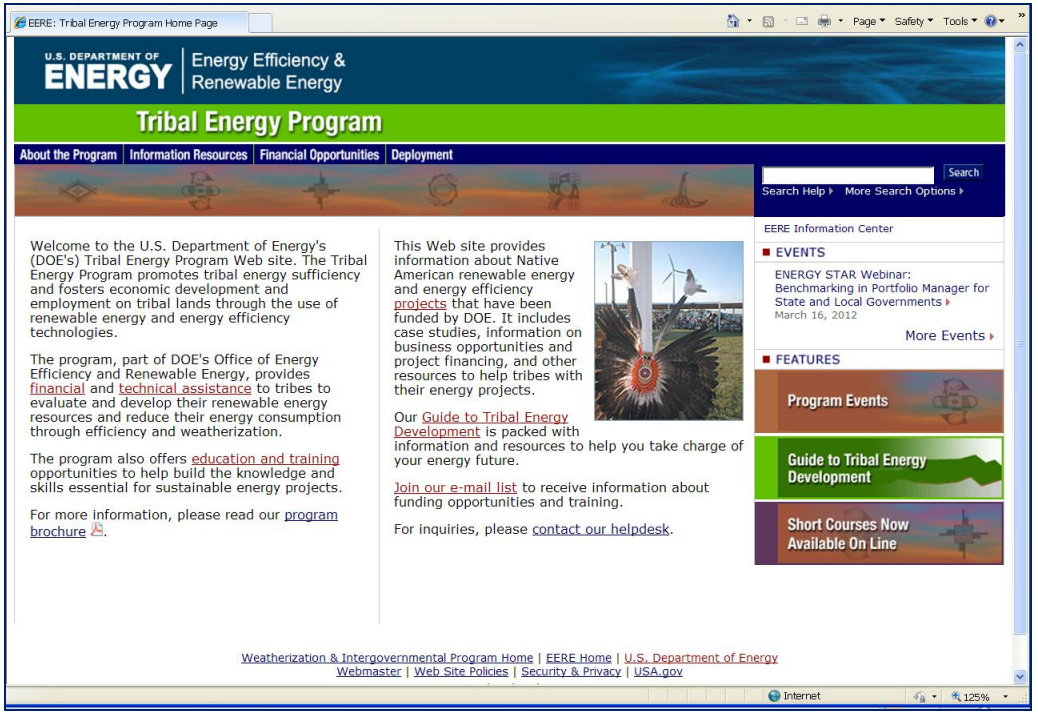
**Easy On-line Subscription**

**On-line Inquiry Capability**



# Program Website

- Features
- Program Brochure
- Upcoming Events
- Short Courses
- Financial Opportunities
- Projects on Tribal Lands
  - Project Summaries
  - Status and Reports
  - Contacts
- Information Resources
- Join Email List
- Contacts



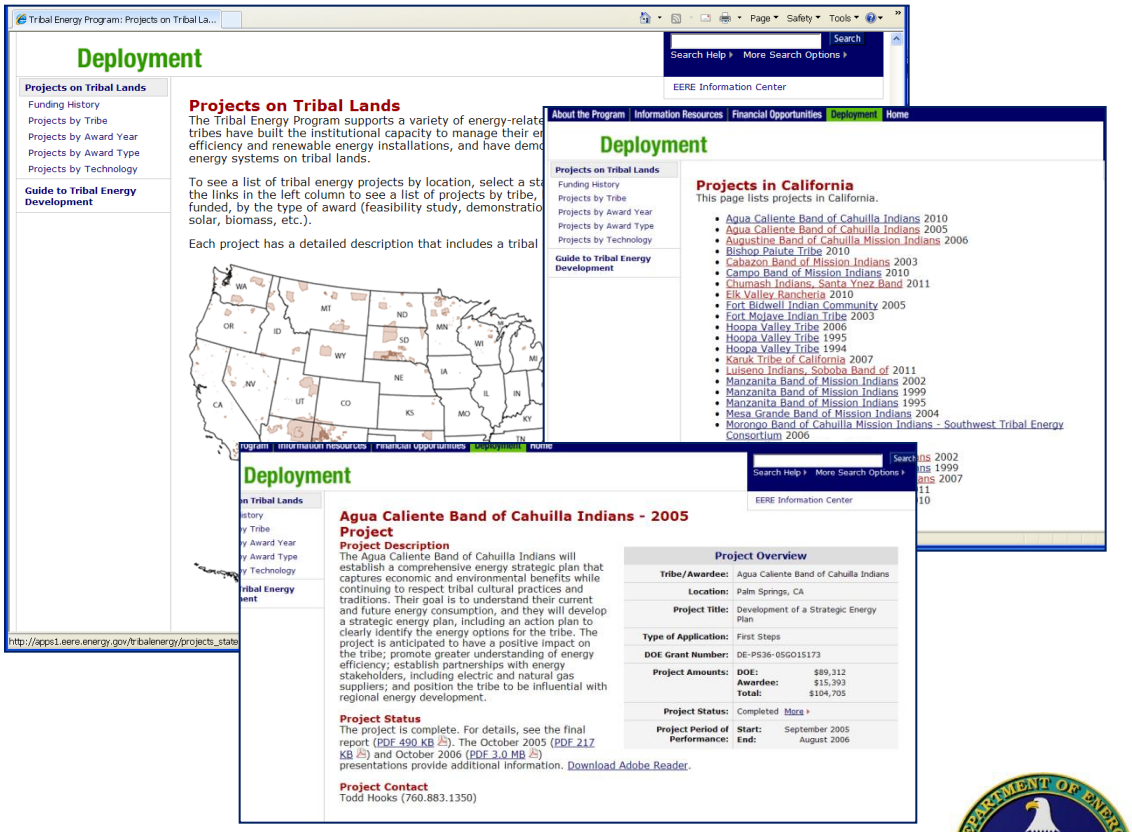

## Clearinghouse of Information

www.eere.energy.gov/tribalenergy

# Program Website

## Projects on Tribal Lands

- **Project Lists Sorted by**
  - **Tribe**
  - **Award year**
  - **Award type**
  - **Technology**
- **Project Map (List by State)**
- **Project Summaries**
  - **Overview**
  - **Scope**
  - **Location**
  - **Status**
  - **Presentations**
  - **Final reports**
  - **Tribal contacts**




## Assuring Visibility of Tribal Projects

# Guide to Tribal Energy Development

## Development Process

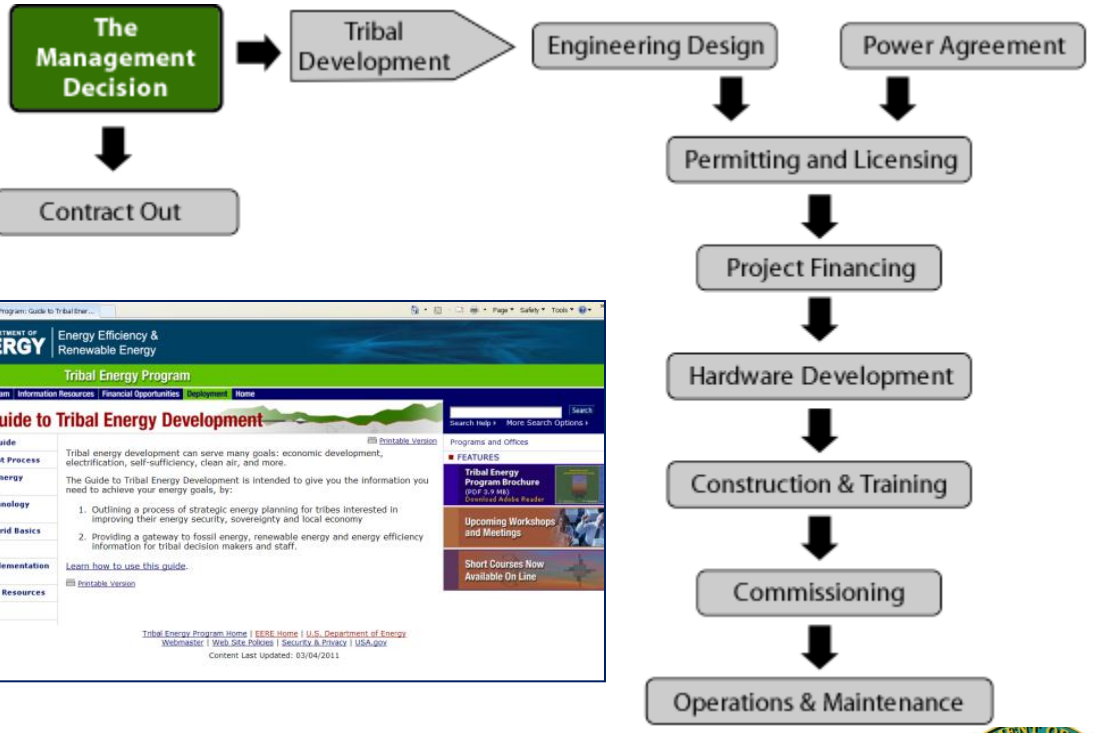
- Strategic Planning
- Options Analysis
- Organizational Development
- Project Development

## Business & Financing

- Short Courses
- Handbooks

## Resource Library

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

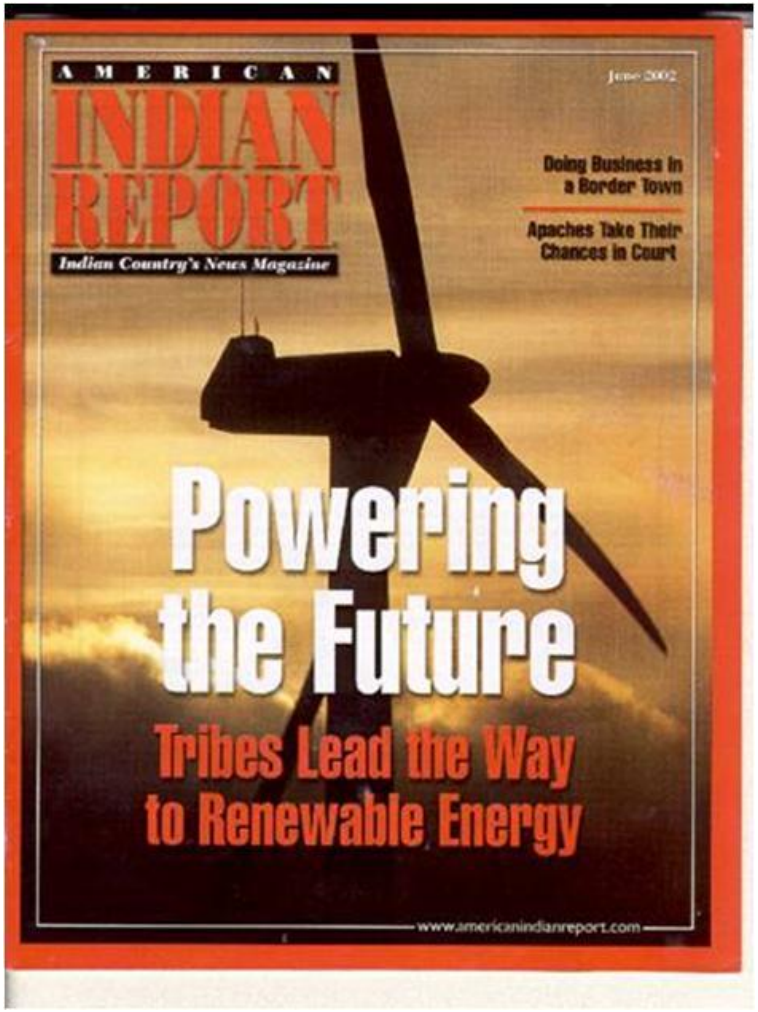






## Clearinghouse of Information

www.eere.energy.gov/tribalenergy/guide




# Questions?

## "Tribes Lead the Way to Renewable Energy"

**American Indian Report**
**June 2002**