

DOE OFFICE OF INDIAN ENERGY

Financial, Technical and informational Resources

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U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

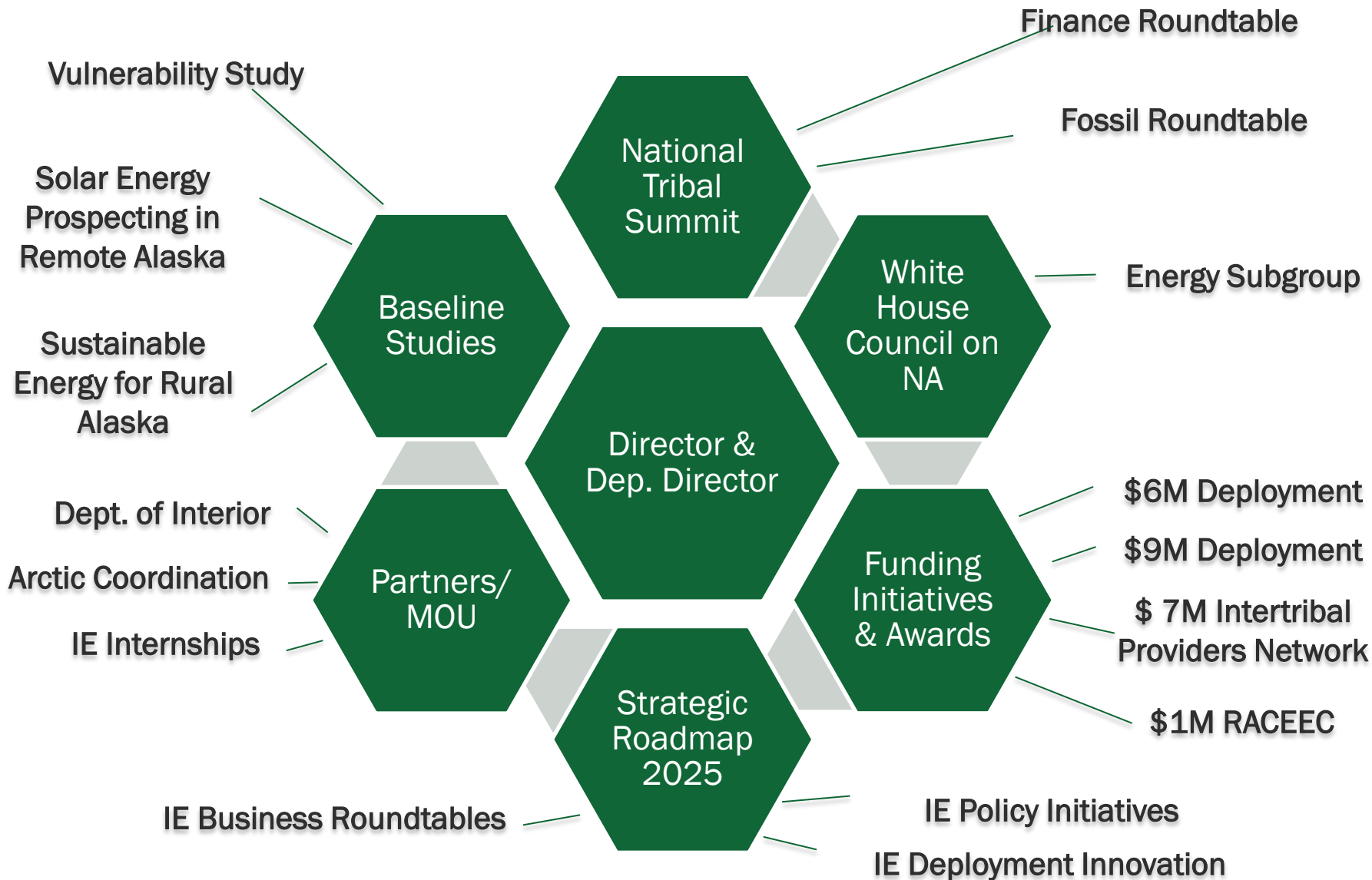
DOE/DOI TRIBAL ENERGY WORKSHOP
National Renewable Energy Laboratory
Golden, Colorado

September 7, 2016

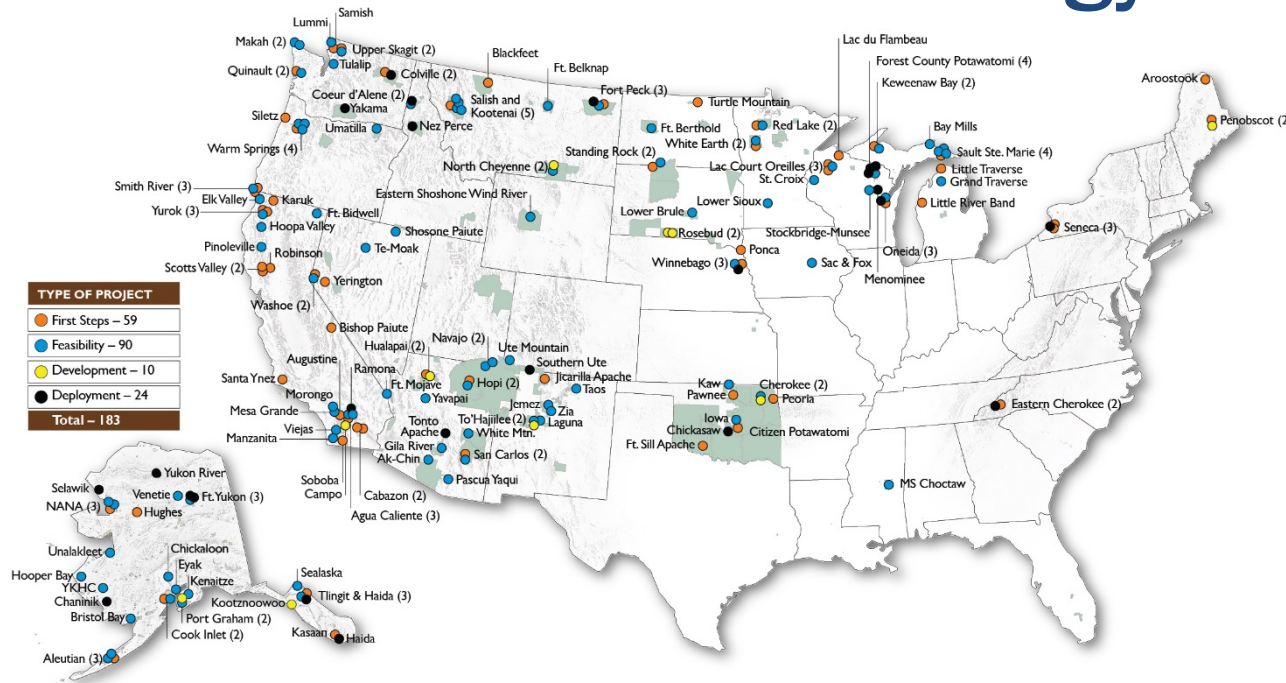
2016 Priorities



FY2015 - 2016 Accomplishments



DOE's Investment in Tribal Energy Projects



DOE has invested **\$48 million** in **183** tribal clean energy projects valued at **\$93.6 million** (2002–2014). DOE's investments were leveraged by **\$45.6 million** in tribal cost-share. Tangible results of those shared investments include:

- **Retrofitting 70 tribal buildings** saving tribes more than **10 million kilowatt-hours** of energy and **\$2.5 million per year**
- **Completing energy audits** on more than **250 tribal buildings**
- **Moving more than 580 MW** of potential new renewable energy generation into development
- **Supporting tribes and Alaska Native villages** in assessing the potential for more than **4 gigawatts** of new renewable energy generation
- **Providing training** to more than **170 tribal project participants**

Office of Indian Energy: FY 2017 Budget Request

Dollars in Thousands

	FY 2015 Enacted	FY 2015 Current	FY 2016 Enacted	FY 2017 Request	FY 2017 vs FY 2016
Office of Indian Energy Policy and Programs					
Program Direction	1,271	1,271	3,200	4,800	+1,600
Technical Assistance	3,739	3,739	2,900	6,000	+3,100
Tribal Energy Grant Program	10,990	10,990	9,900	12,130	+2,230
Total, Office of Indian Energy Policy and Programs	16,000	16,000	16,000	22,930	+6,930
Federal FTEs	7	7	9	15	+6

- Funds **Direct Technical Assistance (\$6 million)** to meet the demand that has doubled since 2013.
- Funds **Financial Assistance (\$12 million)** in the form of grants for deployment of innovative energy systems and technologies; the efficient delivery of technical assistance through the Intertribal Technical Assistance Networks; and DOE Grid Modernization and Energy-Water Nexus Crosscuts.
- Provides **6 more FTEs within Program Direction (\$4.8 million)** that are critical to carry out the programs, especially in the remote communities in Alaska and the Arctic.
- Implements renewable energy targets of the National Strategy for the Arctic Region (NSAR).
- Requests a stand-alone appropriation to align the budget structure with the program's mission scope and departmental organization as a direct report to the Under Secretary for Science and Energy.

Resources

Federal Grant, Loan, and Technical Assistance Programs

FEDERAL GRANT, LOAN, AND TECHNICAL ASSISTANCE PROGRAMS FOR TRIBAL ENERGY DEVELOPMENT

The Federal Energy Development Assistance tool provides information for Tribes about federal grant, loan, and technical assistance programs available from more than 10 federal agencies to support energy development and deployment in Indian Country and Alaska Native villages.

Sort information by type of assistance, eligibility, agency or office, program name, or project phase—from [strategic energy planning](#) to any one of the five steps in the [project development and finance process](#)—or search by keyword. The tool was developed by the [White House Council on Native American Affairs Energy Subgroup](#). If you have questions, comments, or suggestions, [contact us](#).

For upcoming deadlines, see the [Funding Opportunities Calendar](#).

Search:

SEARCH RESULTS

Showing 1 to 10 of 63 entries

TYPE OF ASSISTANCE

- Education and capacity building
- Grants
- Information resources
- Loan and loan guarantee programs
- Tax credits
- Technical assistance

PROGRAM	AGENCY	DESCRIPTION	TYPE OF ASSISTANCE	ELIGIBILITY	PHASE
504 Loan Program	Small Business Administration	Provides growing businesses with long-term, fixed-rate financing for major fixed assets, such as land and buildings.	Loan and loan guarantee programs	Federally recognized Tribes and tribal governments; Alaska Native and tribal corporations; Alaska Native villages; Tribal universities, utilities, and other organized tribal groups; State-recognized-only Tribes; Tribal universities, utilities, and other organized tribal groups; Tribal nonprofit	Phase 1; Phase 4

www.energy.gov/indianenergy

First Steps Toward Developing Renewable Energy and Energy Efficiency on Tribal Lands

Ending October 20, 2016, the U.S. Department of Energy Office of Indian Energy is accepting applications for up to \$3 million to initiate the first steps toward developing and sustaining renewable energy and energy efficiency on tribal lands, under the following Topic Areas:

- Conduct energy options analyses
- Establish baseline energy use and efficiency options
- Develop energy organizations
- Conduct climate resiliency planning
- Establish policy, regulations, and codes to reduce energy use or promote energy development
- Obtain skills and training related to energy use and development.
- Eligible applicants include Indian tribes, including Alaska Native villages, Alaska Native Regional Corporations and Village Corporations, and Tribal Energy Resource Development Organizations

FY2015 Financial Assistance

Facilitating Access to Capital to Spur Deployment in Indian Country

Deployment of Clean Energy and Energy Efficiency Projects on Indian Lands 2015 (DE-FOA-0001390)

- **Topic Area 1: Tribal Building Clean Energy and Energy Efficiency Retrofits**
 - Facility-scale
 - 10 kW minimum for clean energy systems and 15% displacement of energy source (Topic Area 1.a.)
 - Multiple energy efficiency measures with 20% reduction of all energy (Topic Area 1.b.)
- **Topic Area 2: Deploy clean energy systems on a community-scale**
 - Community-scale
 - 50 kW minimum



Solar arrays on home on the Navajo Nation

Closes December 10, 2015

FOA Executive Summary

FOA Summary	Under this FOA, DOE is soliciting applications from Indian Tribes (including Alaska Native regional corporations and village corporations) and Tribal Energy Resource Development Organizations to: (1) install clean energy and energy efficiency retrofits projects for tribal buildings; and (2) to deploy clean energy systems on a community-scale on Indian Lands (see Section III.A for eligibility definitions).
Total Amount to be Awarded	Approximately \$4 million to \$6 million in Federal funds.
Average Award Amount	DOE anticipates making awards that range from \$50,000 to \$500,000 for Topic Area 1 (Tribal Building Clean Energy and Energy Efficiency Retrofits) and from \$250,000 to \$1,000,000 for Topic Area 2 (Community-Scale Clean Energy Deployment).
Types of Funding Agreements	Grants
Period of Performance	1 to 2 years, but no longer than 3 years (including the energy savings verification period for Topic Area 1).

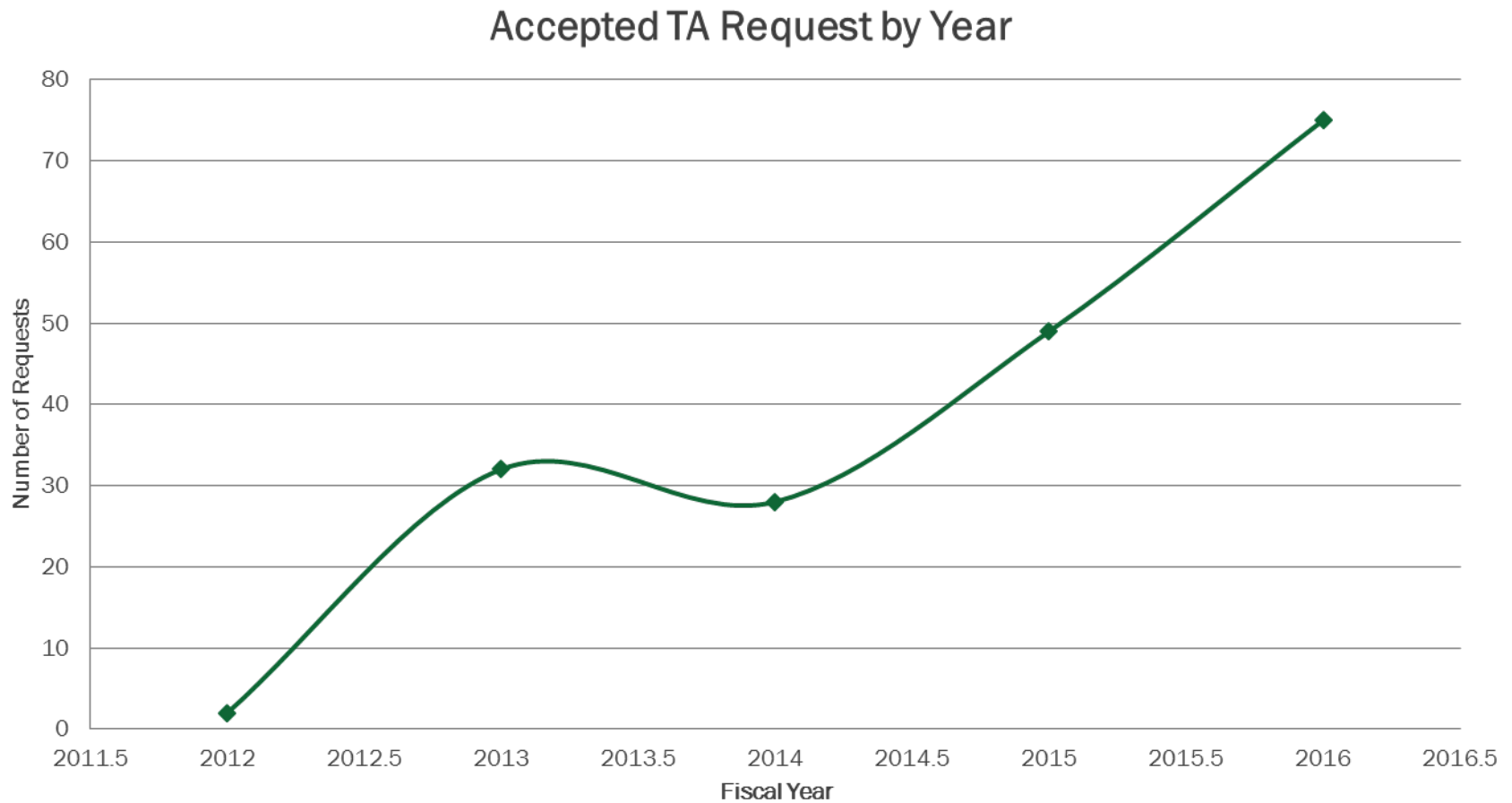
FOA Executive Summary - Continued

Eligible Applicants	Subject to the definitions and requirements in Section III.A, eligible entities include: (1) Indian Tribes (including Alaska Native regional corporations and village corporations) or (2) Tribal Energy Resource Development Organizations. Applications from a consortium of Indian Tribes (Tribal Consortium) will be accepted but <u>must</u> be submitted by a single Indian Tribe acting as the Applicant representing the Consortium. Applications may also be submitted on behalf of an Indian Tribe(s) by an authorized Tribal Organization or Inter-tribal Organization, provided evidence of that authority is supplied as part of the application. See Section III.A for eligibility requirements and definitions.
Cost Share Requirement	50% of Total Project Costs (100% match against DOE funds), unless an Applicant requests a reduction in the cost share as part of the application and receives approval from DOE. Applicants may request up to a 40% reduction in cost share, to no less than 10% of the Total Project Costs. Cost share reduction requests to less than 10% will not be considered. If DOE does not grant a request for reduced cost share, the Applicant will be required to meet the requisite 50% cost share. See Section III.B.7 for the content of cost share reduction requests and the criteria by which they will be reviewed.

FOA Executive Summary - Continued

Means of Submission	Applications <u>must</u> be submitted through EERE Exchange at https://eere-Exchange.energy.gov , DOE's online application portal. DOE will not review or consider applications submitted through other means. The Users' Guide for Applying to the Department of Energy DOE Funding Opportunity Announcements is found at https://eere-Exchange.energy.gov/Manuals.aspx .
Submission of Multiple Applications	Applicants may submit more than one application to this FOA or under a Topic Area, provided that each application is for a unique and distinct project. One application <u>must</u> be provided for each specific project. Submittals under different Topic Areas cannot be combined under one application, except as noted under Topic Area 1.b.
Application Forms	Required forms and templates for applications are available on EERE Exchange at https://eere-Exchange.energy.gov .

Tribal Demand for Technical Assistance



Hot Topics in Technical Assistance to Tribes

- Strategic Energy Planning
- Housing and Building Energy Efficiency
- Project Development
- Climate Resilience
- Village Power (hybrid systems, microgrids, tribal utilities)
- Policy and Regulation
- Contracting (power purchase/sales agreements, interconnection, joint ventures)

Technical Assistance – Tribal Geography



Technical Assistance Request for Tribes

- Offered within available resources
- The application process is a quick and easy on-line process
- Technical assistance ranges from a simple phone call, from 40 to over 200 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.

The image shows a screenshot of a web-based form titled "DOE's Tribal Energy Program REQUEST FOR TECHNICAL ASSISTANCE". The form is framed by a green border. At the top left is the U.S. Department of Energy logo and the text "U.S. Department of Energy Energy Efficiency and Renewable Energy". The title "DOE's Tribal Energy Program" is in large green font, with "REQUEST FOR TECHNICAL ASSISTANCE" in blue below it. The form is divided into three main sections, each with a green header bar: 1. "CONTACT INFORMATION" containing fields for First & Last Name, Tribe/Affiliation, Title, Address 1, Address 2, City, State/Province, Zip Code, Phone, Fax, and E-mail. 2. "DESCRIPTION OF REQUESTED ASSISTANCE (Typically limited to 40 hours)" with a text area for describing the technical scope and a line for identifying the timeline. 3. "BACKGROUND INFORMATION" with a text area for providing background on the reservation, resources, and past efforts. At the bottom, a green box contains the return instructions: "Return form to Lizana Pierce via e-mail at lizana.pierce@doe.gov or facsimile at (303) 275-4753".

Complete Request Form On-line



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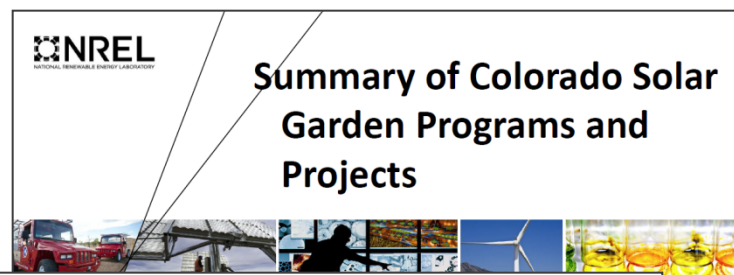
Technical Assistance

Project Development Support

Project development support consists of expert guidance and analysis that helps address specific barriers tribes face while developing a clean energy project.

Examples of project development technical assistance include:

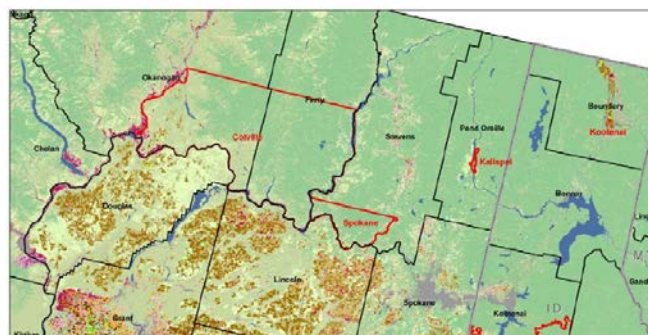
- Third-party independent reviews of transmission studies, financing structures, lease agreements, project reports, etc.
- Objective advice grounded in research and real-world experience on technologies
- Modeling and analysis (or assistance in using available modeling/analysis tools)
- Pre-feasibility transmission studies
- Interconnection agreement facilitation
- Economic evaluations
- System design reviews
- Other specific studies or analysis, upon request



Oilseed Crop Inventory for the Spokane Indian Tribe

Report prepared by Anelia Milbrandt, NREL
October 15, 2012

The Spokane Indian Tribe is located in eastern Washington State. The majority of the tribe's land is covered by evergreen forest with some pasture and shrubland (Figure 1). Cropland areas are located south and west of the tribe, illustrated by the mosaic pattern on the map. Various grains, legumes and orchards are grown in the area, as well as oilseeds.



able Energy, LLC.

Technical Assistance

Pre-feasibility Transmission Studies

- 1) Moapa Band of Paiutes (June 2009)
- 2) Utu Utu Gwaitu Paiute Tribe (Sept 2009)
- 3) Navajo Hopi Land Commission (May 2010)
- 4) Hualapai Tribe (July 2010)
- 5) Ute Mountain Ute Tribe (Feb 2011)
- 6) Chemehuevi Tribe (May 2013)
- 7) San Carlos Apache (May 2013)
- 8) Ione Band (November 2013)
- 9) San Ildefonso Pueblo (November 2013)
- 10) Nez Perce Tribe (December 2013)
- 11) Oglala Sioux (June 2014)
- 12) Turtle Mountain Band (September 2014)
- 13) Mesa Grande Band (October 2014)
- 14) Saginaw Chippewa (November 2014)



Assessment of Electric Power Service Options, Including Solar Applications, for the Moapa Travel Center

Pre-Feasibility Assessment of Renewable Generation Applications, for NHLCO Paragon Ranch Solar

Pre-Feasibility Assessment of Renewable Generation Applications, For the Canoncito Band of Navajos (Tóhajiilee)

Prepared for:
US Department of Energy

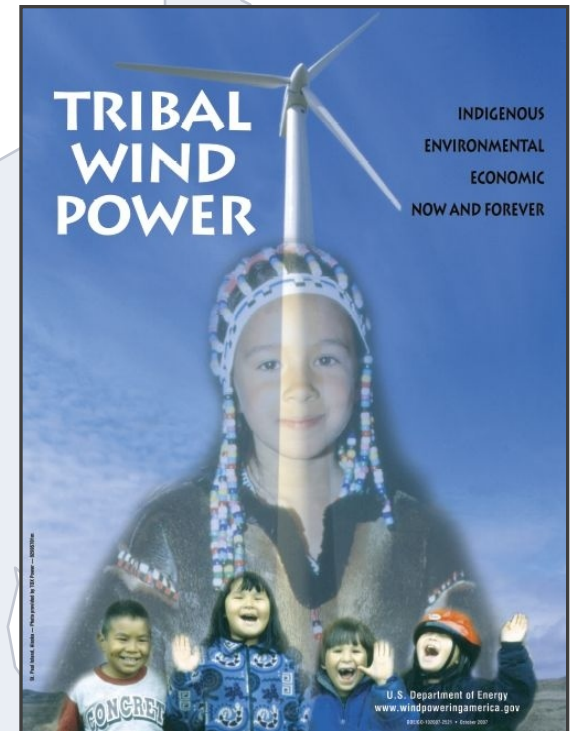
SAN ILDEFONSO PUEBLO



PRE-FEASIBILITY TRIBAL UTILITY REPORT
NOVEMBER 22, 2013

Education & Training

- Annual Program Review
- National Workshops & Tribal Energy Summit
- Tribe Specific or Regional Trainings
 - Upon Request and within available resources
- Student Internships
- On-line “Guide to Tribal Energy Development”
- On-line Short Courses (workshop material)
- Informational Resources (handbooks & guides)
- Webinars (real-time and archived)



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 each other and to share their successes
- Networking & learning opportunity
- Forty to fifty (40-50) Tribal energy projects presented
- Typically ~200 participants



Student Summer Internships

Applications

- Applications due each February
- 12 week internship at Sandia National Laboratories (NM)
- See website for application form or “Join email list”

Immersion into Renewable Energy

- Interns gain hands-on experience on renewable energy systems
- Required to produce a research paper as part of the internship

Interns

- Thirty-one (31) interns sponsored since 2002

Contact

- Sandra Begay-Campbell at (505) 844-5418 or skbegay@sandia.gov

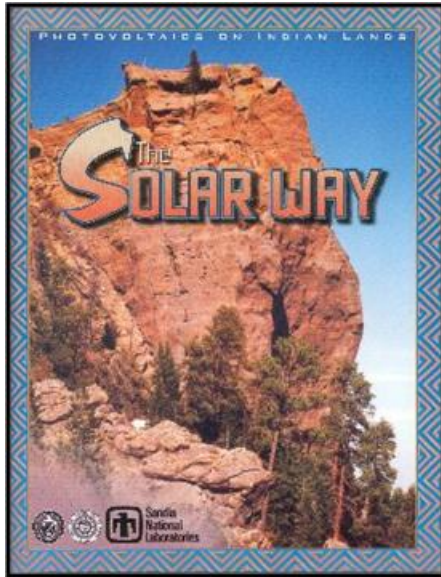
**Student Papers & Testimonials
Posted on TEP Website**



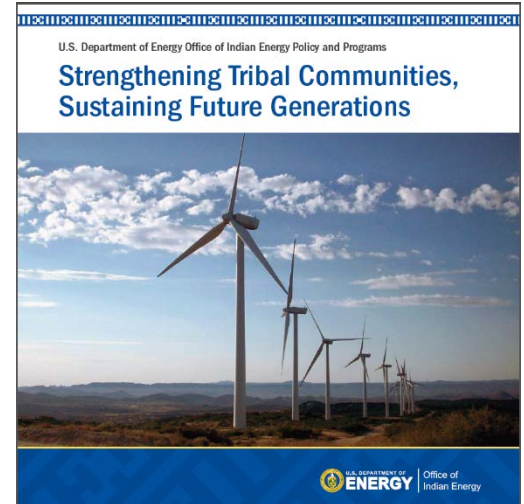
Deborah Tewa (certified electrician & solar installer) at Sandia's PV Laboratory (2002)



Summer Interns on a windy day (2004)



Information Resources



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

EERE Home | Programs & Offices | Consumer Information

Tribal Energy Program

HOME ABOUT PROJECTS EDUCATION & TRAINING CLEAN ENERGY DEVELOPMENT GUIDE TECHNICAL ASSISTANCE FINANCIAL OPPORTUNITIES INFORMATION RESOURCES EVENTS

EEER • Tribal Energy Program • Home

The U.S. Department of Energy's Tribal Energy Program provides financial and technical assistance that enables tribes to evaluate and develop their renewable energy resources and reduce their energy consumption through efficiency and weatherization. The program also offers education and training opportunities designed to foster clean energy technology adoption, promote green jobs and growth, and strengthen native communities. Learn more about the [Tribal Energy Program](#).

POPULAR LINKS

I want to...

- Learn about [funding opportunities](#)
- Get information on existing [tribal energy projects](#)
- Learn how to [develop an clean energy project](#)
- Register for [upcoming trib](#)
- Request [technical assist](#)
- Contact the program's [trib](#)

FEATURES

- 2015 Tribal Energy Program Review
- 2015 Projects Selected for Funding

EVENTS

- Tribes and the New Energy Economy Conference | April 22-23 2015
- EPA ENERGY STAR Webcast: Portfolio Manager Office Hours. Focus Topic: Responding to a Data Request | April 23 2015
- USDA Agricultural Conservation Easement Program Webinar for Tribes | April 23 2015
- More Events >

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Office of Indian Energy Policy and Programs

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NEWS

OCTOBER 26, 2015
President Obama Announces 2015 White House Tribal Nations Conference

SEPTEMBER 30, 2015
Energy Department Announces Request for Information on the Bureau of Indian Communities Energy Efficiency Competition

OCTOBER 22, 2015
Leading the Charge: Doug MacCourt Advances Tribes on Energy Policy

OCTOBER 22, 2015
Winning the Future: Navajo-Rajo Land Commission Leverages DOE Grant to Advance Solar Ranch Project

UPCOMING EVENTS

ACEE Annual Conference
October 10, 2015 to October 23, 2015
ITEP Greening Tribal Operations and Facilities Trainings
October 20, 2015 to October 22, 2015

PROGRAMS & INITIATIVES

- Alaska Native Villages
- Indian Country Working Group
- National Strategy for the Arctic Region

TECHNICAL & FINANCIAL ASSISTANCE

- Apply for Technical Assistance
- Federal Energy Development Assistance Tool
- START Program

Subcontract Report
NREL/SR-7A4-48078
June 2010

**Renewable Energy Development in Indian Country:
A Handbook for Tribes**

By Douglas C. MacCourt
Chair, Indian Law Practice
Ater Wynne LLP

A Project for the National Renewable Energy Laboratory (NREL)
and the Alliance for Sustainable Energy, LLC.

June 2010 Edition

ATERWYNNE LLP
ATTORNEYS AT LAW

PORTLAND SEATTLE MENLO PARK SALT LAKE CITY

TRIBAL AUTHORITY PROCESS

Case Studies:
The Conversion of On-reservation Electric Utilities to Tribal Ownership and Operation

Prepared for:
U.S. Department of Energy
Tribal Energy Program

Prepared by:
William Aron Power Administration
Renewable Resources Program
Updated and revised September 2010

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

Miscellaneous

Informational Materials

Short Courses

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

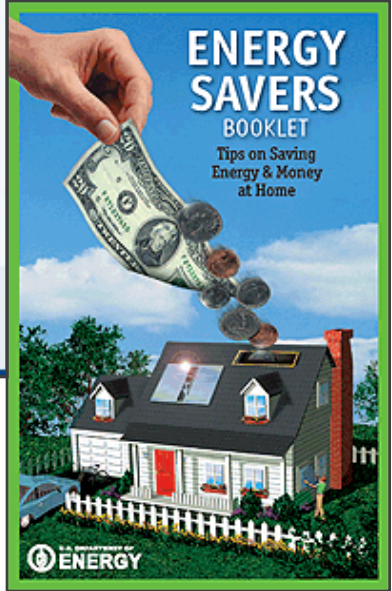
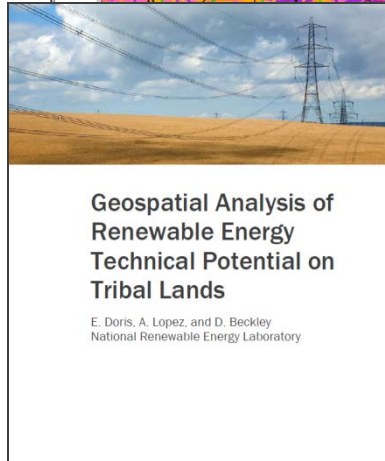
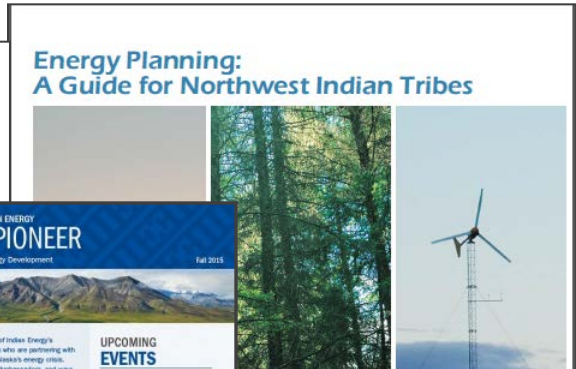
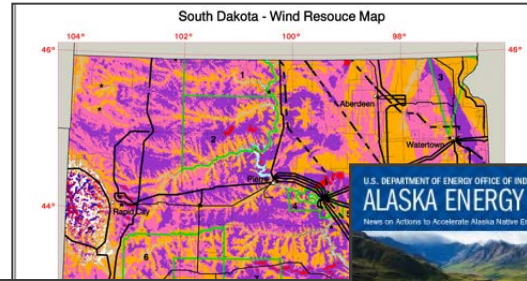
Handbooks & Guides

- 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

Resource Library



Posted on Program Websites

Resource Library

**ENERGY.GOV**
Office of Indian Energy Policy and Programs

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[Home](#) > [Resources](#) > Energy Resource Library

ENERGY RESOURCE LIBRARY

- [Alaska Native Villages](#)
- [Education and Training](#)
- [Energy Resource Library](#)**
- [Funding Opportunities](#)
- [Military Initiative](#)
- [Newsletter](#)
- [Roundtables](#)
- [START Program](#)
- [Strategic Energy Planning](#)
- [Technical Assistance](#)
- [Tribal Energy Program](#)
- [Tribal Summit](#)

The Office of Indian Energy resource library provides links to helpful resources for Tribes on energy project development and financing in Indian Country. The library includes links to more than 85 topically relevant publications, websites, videos, and more produced by the Office of Indian Energy and external organizations. The resources are specifically focused on energy topics that help promote Indian tribal energy development, efficiency, and use.

Find resources for Tribes on the following topics:

PROJECT DEVELOPMENT AND FINANCE

- [Community-Scale Development](#)
- [Finance](#)
- [General Project Development and Finance Resources](#)
- [Legal and Regulatory](#)
- [Project Checklists](#)
- [Project Development](#)
- [Strategic Energy Planning](#)
- [Tribal Case Studies](#)

ENERGY

- [Biomass and Waste-to-Energy](#)
- [Energy Efficiency](#)
- [Fossil Energy](#)
- [Geothermal Energy](#)
- [General Renewable Energy Technology Resources](#)
- [Solar Energy](#)
- [Water Energy](#)
- [Wind Energy](#)

ADDITIONAL TOPICS

- [Climate Change](#)
- [Transmission](#)

 U.S. DEPARTMENT OF **ENERGY** | Office of Indian Energy

Email Notices

As subscribers, Tribes receive email newsletters on:

- Training opportunities and upcoming events
- Funding opportunities through our program and other federal programs and agencies
- Other news and information related to Tribal energy.

Simple On-line Subscription

Join Our Email List

[www.energy.gov/indian energy](http://www.energy.gov/indian%20energy)

DOE Office of Indian Energy Email Updates

To sign up for email updates from the DOE Office of Indian Energy, please enter your contact information and subscriber preferences below.

Email Address

First Name

Last Name

Tribe

Company

Title

Business Phone

QUYANA! & Thank you!

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