

DOE OFFICE OF INDIAN ENERGY

DOE Indian Energy Program Overview

Lizana Pierce, Senior Engineer and Program Manager



U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

November 14, 2016

Strengthening Tribal Communities Sustaining Future Generations

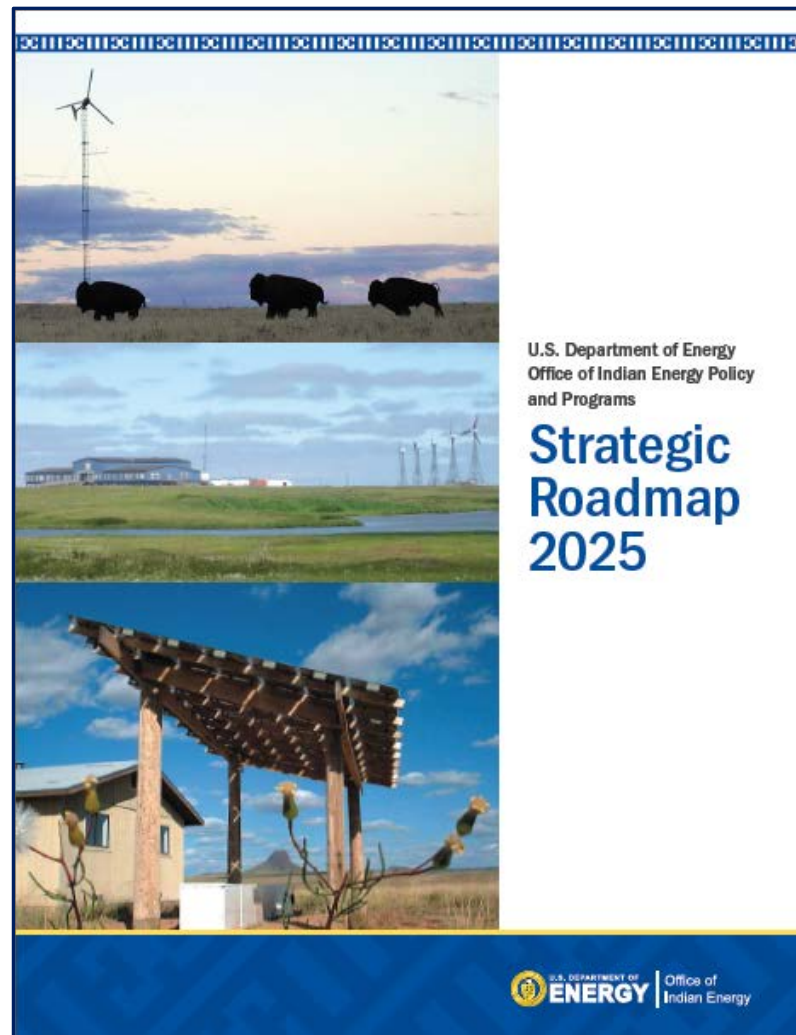
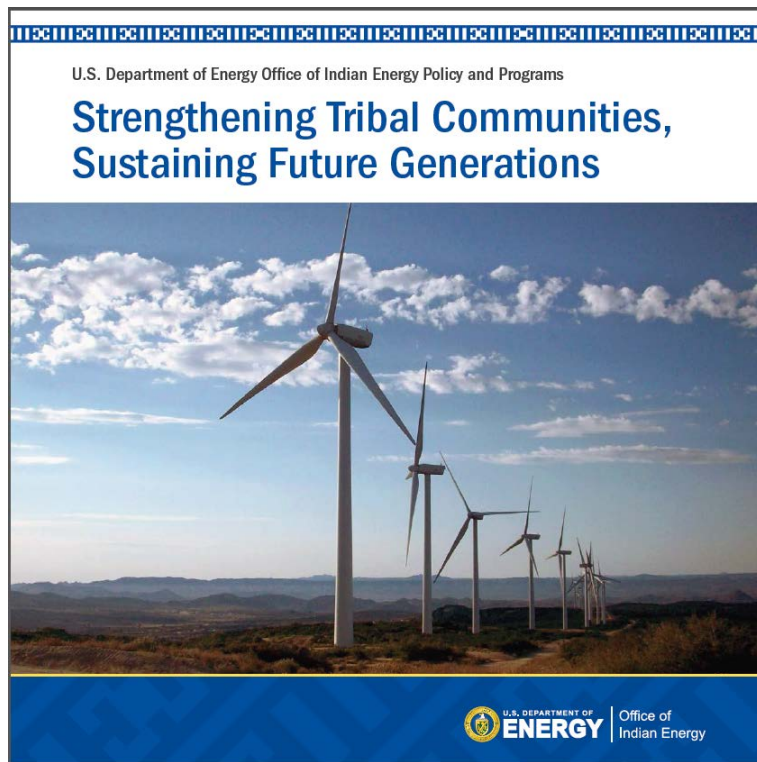


The DOE Office of Indian Energy is charged by Congress under the Indian Tribal Energy Development and Self Determination Act of 2005 (Energy Policy Act of 2005 (EPAct 2005), Title V, codified at 42 USC § 15801) to “provide, direct, foster, coordinate, and implement energy planning, education, management, conservation, and delivery programs that –

- (1) promote Indian tribal energy development, efficiency, and use;
- (2) reduce or stabilize energy costs;
- (3) enhance and strengthen Indian tribal energy and economic infrastructure relating to natural resource development and electrification; and
- (4) bring electrical power and service to Indian land and the homes of tribal members located on Indian lands or acquired, constructed, or improved (in whole or in part) with Federal funds.

Program Mission

To maximize the development and deployment of energy solutions for the benefit of American Indians and Alaska Natives.



Office Leadership



Christopher Clark Deschene
Director, Office of Indian Energy Policy and Programs

Christopher Clark Deschene (Navajo Nation) is the Director of the Office of Indian Energy. Mr. Deschene has more than 20 years of management and policy experience, along with extensive tribal relationships and deep expertise in business and energy development, natural resources, and environmental policies, federal Indian law, and government affairs.



David F. Conrad
Deputy Director, Office of Indian Energy Policy and Programs

David F. Conrad serves as the Deputy Director for the Office of Indian Energy. He previously served as director for DOE's Tribal and Intergovernmental Affairs in the Office of Congressional and Intergovernmental Affairs, where he was responsible for intergovernmental affairs with tribal, city, and county governments.

Office Leadership



Doug MacCourt
Senior Policy Advisor

Doug MacCourt as the Senior Advisor advises the Office of Indian Energy's Director and staff and works throughout DOE and with other federal and state agencies on policy, legislative, and funding issues that are critical to the Office's mission of developing and deploying clean energy and related economic development projects in Indian Country.



Michael L. Rodrigue
Chief Operating Officer

Michael L. Rodrigue coordinates and executes the administrative operations that support the mission of the Office of Indian Energy, including acquisitions, human capital, facilities, and financial management.

Program Staff



Givey Kochanowski
Program Manager, Alaska

Givey Kochanowski is the Alaska Program Manager for the Office of Indian Energy. Stationed in Anchorage, Alaska, he is responsible for the support and delivery of DOE technical assistance, capacity building, energy education, and outreach to all Alaskan tribal entities. Mr. Kochanowski is a champion for tribal needs through the various organizational boards on which he serves, ranging from the Alaska Federal Executive Association to the National Defense Transportation Association's North Pole Chapter.

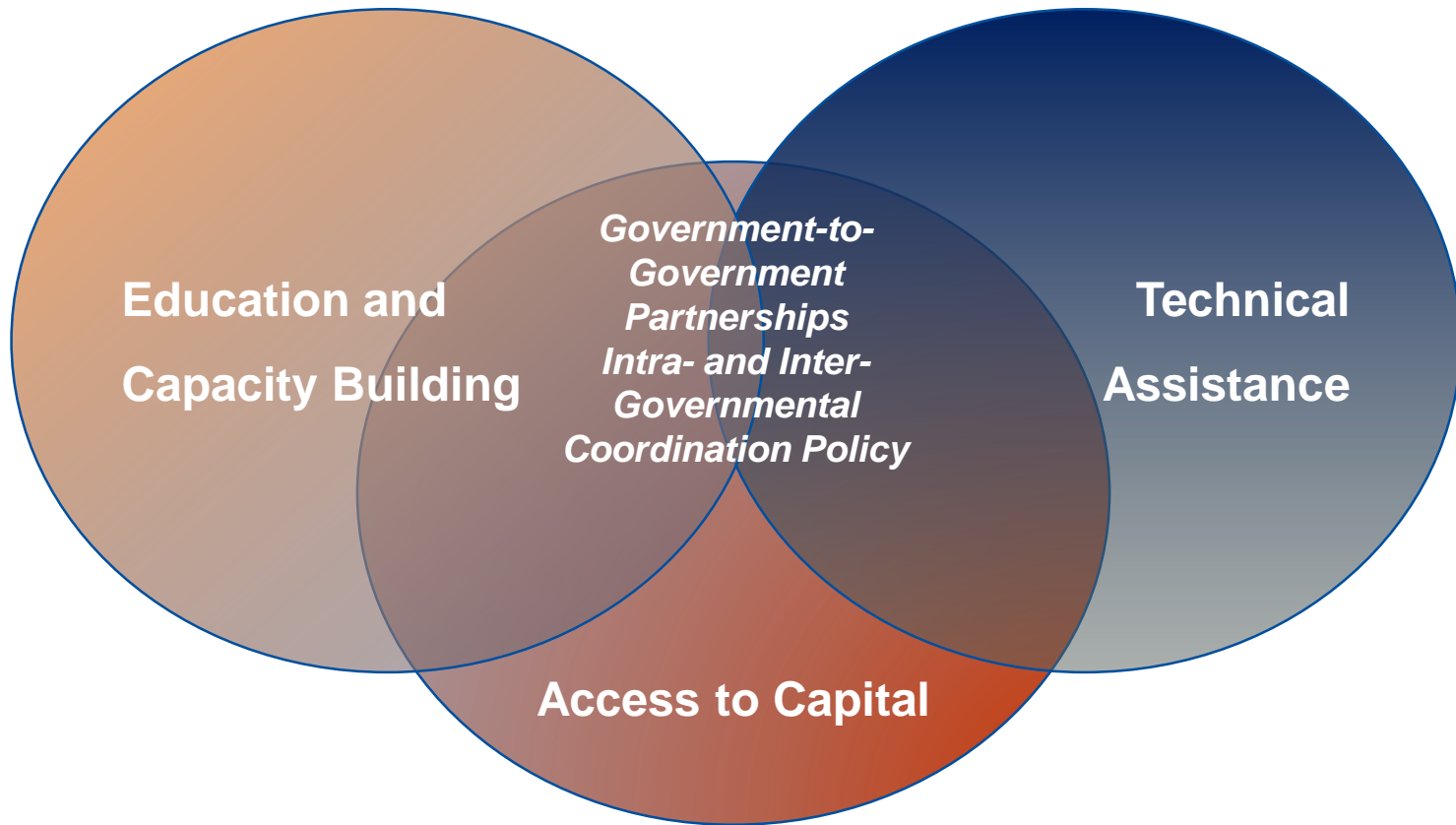


Lizana Pierce
Program Manager

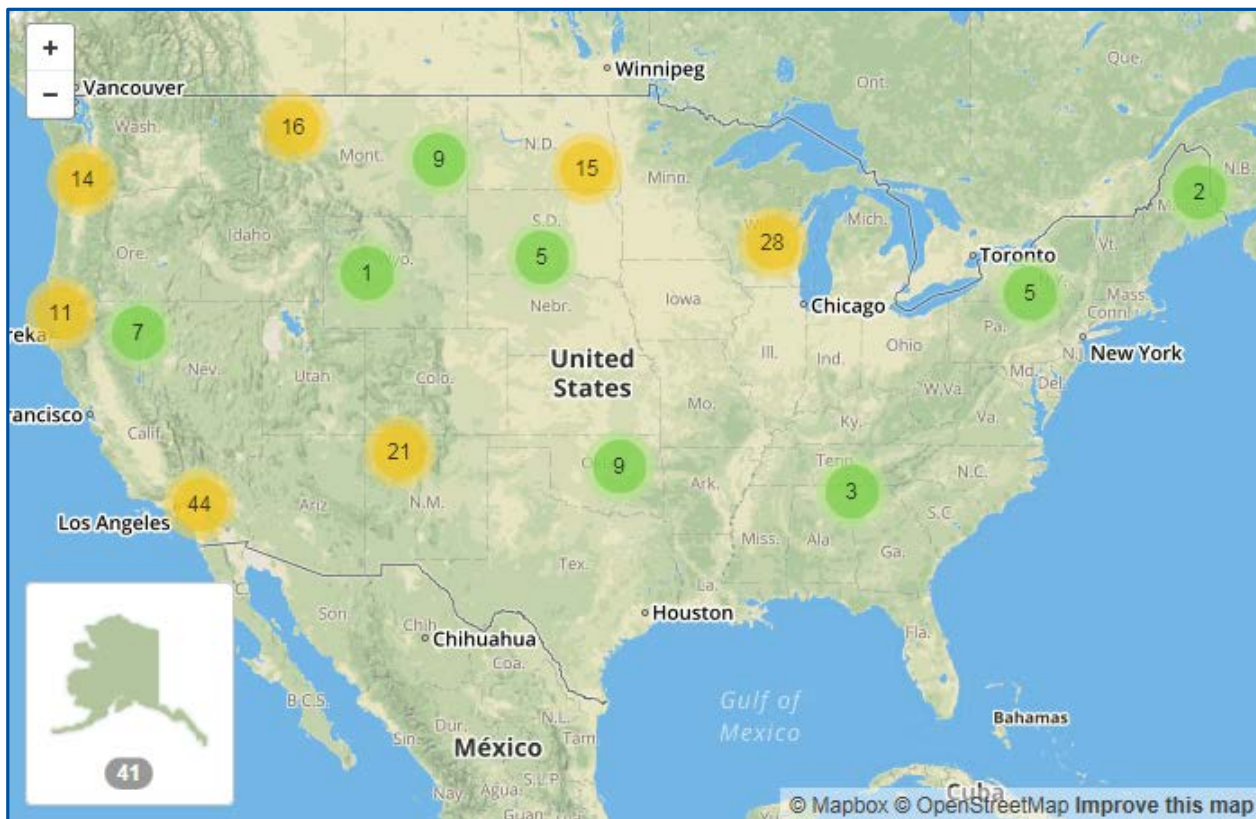
Lizana Pierce duty stationed in Colorado is responsible for implementing national funding and financing programs and administering the resultant tribal energy project grants and agreements. She has more than 20 years of clean energy technology, project development, and management experience assisting tribes in developing their energy resources and building their energy visions.



Maximizing the Return through Government-to-Government Partnerships



Invested nearly \$66.5 million in more than 200 tribal energy projects (2002-2016)



Leveraged by nearly \$60 million in tribal cost share

Financial Assistance

Competitive Process (2002-2016)

- **20 Funding Opportunities Announcements issued**
- **Accepted a total of 726 applications** (valued at \$493 million)
- **Funded 86% of all meritorious applications** (Total of 216 out of 252)
- **Funded 30% of all applications received** (DOE average is ~5 to 10%)
- **Funded 150 different tribal entities** (26% of all 567 Indian tribes)

All Funds Awarded through a Competitive Process

Financial Assistance

Energy Department Makes Up to \$6 Million Available to Deploy Energy Efficiency and Clean Energy on Indian Lands

In support of the Obama Administration's ongoing commitment to strengthening partnerships with tribal nations and advancing tribal energy and economic development, the Energy Department today announced up to \$6 million to deploy energy efficiency and clean energy on Indian land.



Office of Indian Energy at the White House Tribal Nations Conference (2016)

Financial Assistance

Deployment of Energy Efficiency and Clean Energy on Indian Lands – 2017 (DE-FOA-0001660)

Through this Funding Opportunity Announcement (FOA), the Office of Indian Energy will continue its efforts to maximize the development and deployment of energy solutions for the benefit of American Indians and Alaska Natives and help build the knowledge, skills, and resources needed to implement those energy solutions.

In support of these objectives, the Office of Indian Energy is soliciting applications to install energy efficiency measures and deploy clean energy systems on Indian lands.

Projects selected under this FOA are intended to reduce energy costs and increase energy security for Indian tribes and tribal members.



Financial Assistance

Deployment of Energy Efficiency and Clean Energy on Indian Lands – 2017 (DE-FOA-0001660)

Specifically, the Office of Indian Energy is soliciting applications from Indian tribes including Alaska Native Regional Corporations and Village Corporations (hereafter referred to as “Indian Tribe”) and Tribal Energy Resource Development Organizations to:

- (1) Install energy efficiency measures and clean energy systems on tribal buildings (Topic Area 1) through:
 - a. Deep energy retrofits (Topic Area 1.a.), or
 - b. Energy efficiency measures and clean energy systems (Topic Area 1.b.),

and/or,

- (2) Deploy clean energy systems on a community-scale (Topic Area 2).



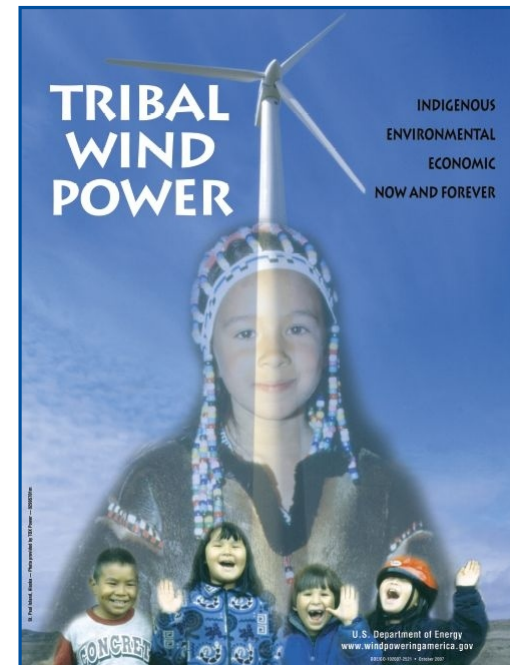
Rosebud Sioux Tribe's (SD) Little Soldier Turbine (First 750 kW Turbine on Tribal Lands in contiguous U.S.)

Financial Assistance

Deployment of Energy Efficiency and Clean Energy on Indian Lands – 2017 (DE-FOA-0001660)

For purposes of this Funding Opportunity Announcement, an eligible “Indian Tribe” (including Alaska Native villages) must be federally recognized as listed in Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs.

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 provided as part of the application.



Applications Due February 7, 2017

Financial Assistance

Deployment of Energy Efficiency and Clean Energy on Indian Lands – 2017 (DE-FOA-0001660)

A 50% cost share of the total allowable costs of the project (i.e., the sum of the DOE share, and the Recipient share of allowable costs equals the total allowable cost of the project) is required.

An executed Tribal Council Resolution from each participating Indian Tribe, a declaration (or resolution) from each Alaska Native Regional Corporation, Village Corporation, or Tribal Energy Resource Development Organization signed by an authorized representative, and a letter of commitment from all other project participants are required as a part of the application.



Northern Cheyenne Tribe (MT)
Completed wind feasibility
(anemometer at sunset)

Informational Webinar December 1, 2016

Assisting Tribes Achieve Their Energy Vision

Between 2010 -2016 DOE's Office of Indian Energy funded 43 renewable energy and energy efficiency projects valued at more than \$70M (DOE \$25M; Cost Share \$45M).

- Electricity bills reduced for more than 2,500 tribal government and community buildings and more than 29,000 tribal members
- For every \$1 DOE funding for clean energy projects results in \$7.22 savings for those tribes
- Average annual savings of \$10M and lifetime savings of a half a billion dollars.



Tonto Apache Tribe
Solar photovoltaic systems installed on their government buildings (AZ)



Forest County Potawatomi Community(WI)
2-megawatt anaerobic digestion and biogas generation facility (May 2013)





POSITIONING TRIBES TO THRIVE

DOE-Funded Tribal Energy Projects, 2010–2016

Between 2010 and 2016, the U.S. Department of Energy (DOE) Office of Indian Energy co-funded the deployment of **43** tribal energy projects valued at more than **\$70 million**.


DOE invested nearly **\$25 million** in these renewable energy and energy efficiency projects.




The 1-megawatt solar photovoltaic system installed on the Soboba Band of Luiseño Indians Reservation in California was co-funded by a DOE grant.

Shared investments in tribal energy have yielded tangible results, including:

Approximately **18.5 megawatts** 
of new tribal renewable energy generation capacity


Annual electricity savings of
51 million kilowatt-hours—
enough to power
~4,700 U.S. homes 
for one year

 Lower electricity bills for more than
2,500 tribal buildings and more than
29,000 tribal members

 Total cost savings of
\$9 million–\$11 million annually
and more than **\$0.5 billion**
over the life of the projects



The equivalent of
~2,000 jobs

Annual greenhouse gas emissions reductions of
~73,000 tons—
the equivalent of taking
14,000 passenger vehicles 
off the road for one year

Learn more about tribal energy project impacts and outcomes at energy.gov/indianenergy/successes

September 2016 · Front photo from Soboba Band · Printed on paper that contains recycled content.

Renewable Energy Development in Indian Country



Rosebud Sioux Tribe (SD) installed a low-income residential system (August 2016)

Alaska Native Tribal Health Consortium (AK) upgraded sanitation facilities in Selawik



Chaninik Wind Group (AK)
Thermal heating using wind energy
(November 2012)

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



Renewable Energy Development in Indian Country



Soboba Band of Luiseño Indians (CA) 1 MW solar installation (July 2016)



Menominee Tribal Enterprise (WI) Biomass CHP (April 2016)

Southern Ute Indian Tribe (CO) Construction began on the Oxford Solar Project, a 1.3 MW ground-mounted solar photovoltaic (PV) system on 10 acres (September 2016). Shown is the Southern Ute Cultural Center.



Renewable Energy Development in Indian Country

Seneca Nation of Indians (NY)
groundbreaking ceremony for its
1.5 MW wind turbine (April 2016)



Forest County Potawatomi Community (WI) 922.95 kW community solar project. A 447.64 kW installed on the Potawatomi Bingo Casino in Milwaukee (shown right) and 22 kW installed in the Tribe's Land and Natural Resource building in Crandon (shown above)



Renewable Energy Development in Indian Country



The **Bishop Paiute Tribe (CA)** Residential Solar Program with two grants from DOE will install 178 kW on 56 homes (2015)

Funding Resources

Energy Development Assistance Tool

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

Current Funding Opportunities

List of open tribal energy related funding opportunities from federal agencies and other sources

Ongoing Opportunities

Links to ongoing technical assistance, grant, loan and loan guarantee programs

<http://energy.gov/indianenergy>

The screenshot shows the Energy.gov website interface. At the top, there is a green header with the logo and navigation menu. Below the header, there is a search bar and a navigation menu. The main content area displays the 'ENERGY DEVELOPMENT ASSISTANCE TOOL' page. It includes a search bar, a 'SEARCH RESULTS' section with a table of results, and a 'TYPE OF ASSISTANCE' sidebar with checkboxes for various assistance types. The table has columns for PROGRAM, AGENCY, DESCRIPTION, TYPE OF ASSISTANCE, ELIGIBILITY, and PHASE. One result is visible: '504 Loan Program' from 'Small Business Administration'.

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	Loan and loan guarantee programs	Federally recognized Tribes and tribal governments; Alaska Native and tribal	Project Potential; Project Implementation

The screenshot shows the Energy.gov website interface for the 'FUNDING' page. It includes a search bar, a navigation menu, and a main content area. The main content area displays the 'FUNDING' section with a description of federal agencies providing grant, loan, and technical assistance programs. Below this, there are links for 'Current Funding Opportunities' and 'Ongoing Opportunities'. The 'CURRENT FUNDING OPPORTUNITIES' section features a table with columns for CLOSE DATE, ORGANIZATION, and OPPORTUNITY. One opportunity is listed: 'First Steps Toward Developing Renewable Energy and Energy Efficiency on Tribal Lands' from the 'U.S. Department of Energy Office of Indian Energy'. The table also includes a list of six topic areas and a note about eligible applicants.

CLOSE DATE	ORGANIZATION	OPPORTUNITY
10/20/2016	U.S. Department of Energy Office of Indian Energy	First Steps Toward Developing Renewable Energy and Energy Efficiency on Tribal Lands 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: <ol style="list-style-type: none">1. Conduct energy options analyses2. Establish baseline energy use and efficiency options3. Develop energy organizations4. Conduct climate resiliency planning5. Establish policy, regulations, and codes to reduce energy use or promote energy development6. 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.



Technical Assistance



Strategic Energy Planning

On-request Technical Assistance

Technical assistance is to address a specific challenge or fulfill a need that is essential to a current project's successful implementation. The intended result of this technical assistance is a tangible product or specific deliverable designed to help move a project forward. Types include:

- Energy Planning
- Housing and Building Energy Efficiency
- Project Development
- Climate Resilience
- Village Power
- Policy and Regulation

Strategic Technical Assistance Response Team (START) Program

Competitive technical assistance program to assist in the development of tribal renewable energy projects.

<http://energy.gov/indianenergy>



Resources

Information Resources

- [Energy Resource Library](#)

Provides links to helpful resources for tribes on energy project development and financing on tribal lands. The library includes links to topically relevant publications, websites, videos, and more.

- [Curriculum Foundational and Advanced Courses](#)

Educational webinars on strategic energy planning, project development, resources technologies, and advance concepts such as business structures and financing

Workshops & Webinars

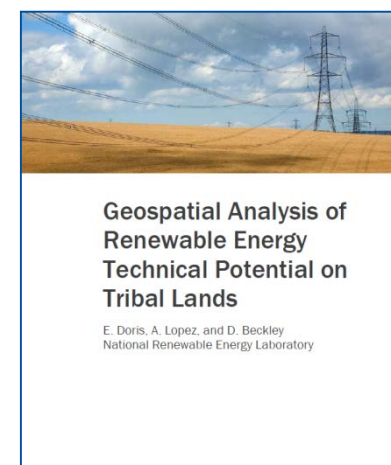
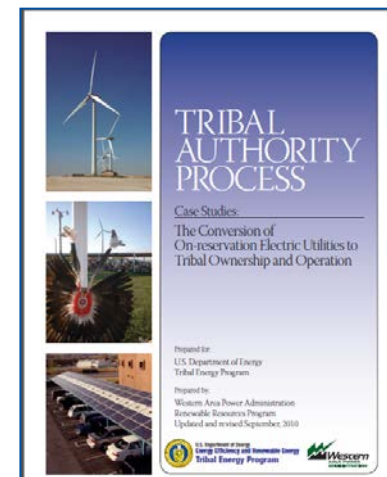
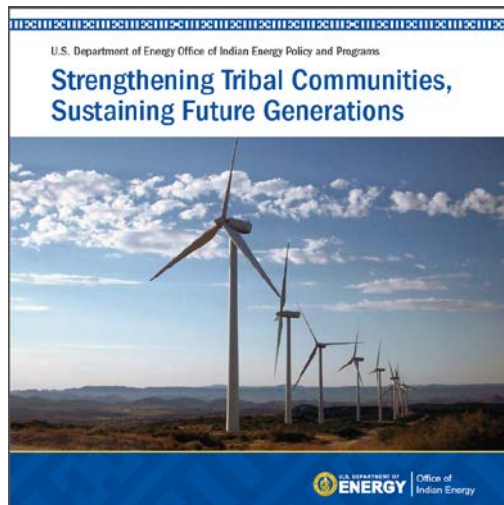
- [Monthly Webinars](#)

Technical assistance is to address a specific challenge or fulfill a need that is essential to a current project's successful implementation. The intended result of this technical

- [Periodic Workshops](#)

Workshop on specific topics

<http://energy.gov/indianenergy>



Assisting Tribes Achieve Their Energy Vision



Rosebud Sioux's (SD) Little Soldier Turbine
First 750 kW Turbine on Tribal Lands in the Contiguous U.S.



Solar arrays on **Navajo** home (AZ)

PV System (6 kW) at **SIPI's (NM) Science and Technology Building**



Solar Installations at **Pueblo of Laguna's Majors Ranch** (NM)

Jicarilla Apache Reservation PV array on Dulce High School (NM)



DOE Tribal Energy Summit



Join us May 2017

Questions?

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To receive periodic email information
“Get Our Email Updates” at
<http://energy.gov/indianenergy>