DOE OFFICE OF INDIAN ENERGY

Office Overview

Lizana Pierce, Senior Engineer and Deployment Supervisor





Senior Engineer and Deployment Supervisor Lizana Pierce









- Lizana Pierce manages the implementation of all Office of Indian Energy deployment programs: technical assistance, financial assistance, and education and capacity building.
- As Deployment Supervisor, she also serves as the principal engineering expert on these programs for the Director and Deputy Director.
 - Holds a Bachelor of Science degree in mechanical engineering
 - Brings 30 years of experience in energy technologies, project development, and management
 - Has dedicated the last 25 years to assisting Indian tribes in developing their energy resources and building their human capacity to realize their energy visions

"One of the things that motivates me the most is the ability to touch people [and] to see how these energy projects have had a positive impact on the everyday lives of people and tribal communities."

About Us



New DOE Policy Order and Guidance

On October 7, 2024, DOE issued its **Policy** and **Order** on consultation and engagement with federally recognized Indian tribes and Alaska Native Settlement Act (ANCSA) corporations.

In April 2024, DOE issued a Financial Assistance Letter (or FAL) which provides specific guidance for addressing Interactions with Indian Tribes in funding opportunity announcements and financial assistance or other transaction solicitations and agreements.

U.S. Department of Energy Washington, DC

POLICY

DOE P 144.1

Approved: 10-7-2024

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SUBJECT: U.S. DEPARTMENT OF ENERGY POLICY ON CONSULTATION AND ENGAGEMENT WITH FEDERALLY RECOGNIZED INDIAN TRIBES AND ALASKA NATIVE CLAIMS SETTLEMENT ACT CORPORATIONS

U.S. Department of Energy Washington, DC

ORDER

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Approved: 10-07-2024

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SUBJECT: DEPARTMENT OF ENERGY (DOE) REQUIREMENTS FOR CONSULTATION AND ENGAGEMENT WITH FEDERALLY RECOGNIZED INDIAN TRIBES AND ALASKA NATIVE CLAIMS SETTLEMENT ACT CORPORATIONS PURSUANT TO DOE POLICY 144.1

No.: FAL-2024-03/OTL 2024-01

Date: April 5, 2024

Department of Energy



FINANCIAL ASSISTANCE/ OTHER TRANSACTION LE

sistance/Other Transaction Letter is issued under the authority of the Senior Procurement Executives of DOE and NNSA

Subject:

Guidance for Addressing Interactions with Indian Tribes in Funding Opportunity Announcements/Other Transaction Solicitations and Financial Assistance and Other Transaction Agreements

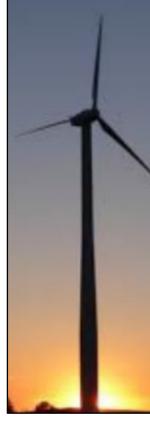
Office of Indian Energy

The DOE Office of Indian Energy is charged by Congress under the Indian Tribal Energy Development and Self Determination Act of 2005 (Title V of the Energy Policy Act of 2005) 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."







Clockwise from right: **Seneca Nation's** (NY) 1.5-MW wind turbine, **Sokaogon Chippewa Community** (WI) Housing Project, and **Chippewa Cree Tribe's** (MT) Residential Solar.

Recent Accomplishments - 2023



https://www.youtube.com/watch?v=4KP0LQIDTkk&t=12s



Deployment Program

Financial Assistance



Provides funding and financing to support tribal energy development

Technical Assistance



Offers technical assistance at no-charge to advance tribal energy and infrastructure projects

Education and Capacity Building



Supports internal capacity building to develop energy projects and navigate energy markets

Financial Assistance and Investments



Josh Gregory, Engineer and Financial Assistance Lead







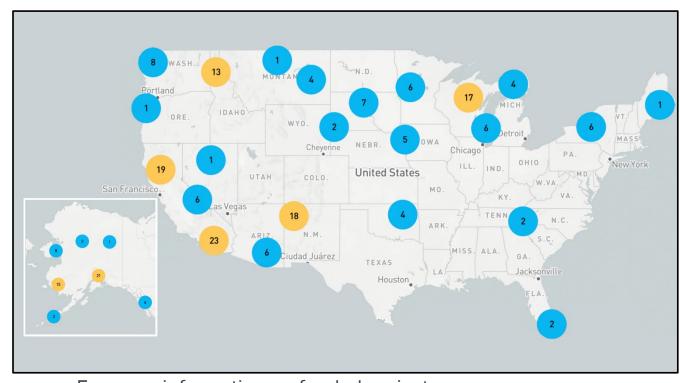


- Josh is an engineer and Project Officer with the Office of Indian Energy and serves as the Financial Assistance team lead for the Deployment Program.
- As a Project Officer, he is a technical expert and helps administer financial assistance awards to Native Nations, Alaska Native Villages, and inter-Tribal Organizations.
 - Holds a Bachelor of Science degree in Mechanical Engineering
 - Previously served six-years as a mechanical engineer with the Division of Energy and Mineral Development (DEMD), a Tribal Energy Office within the Bureau of Indian Affairs
 - Brings over 20 years of technical experience with 10 years specifically supporting Tribal Energy Projects

"What inspires me the most about the work we do is the resilience, the drive, and the unwavering determination of our grant recipients to take control of their resources and utilize and manage those resources—to not only secure reliable energy now, but to move toward energy independence for the benefit of generations to come."

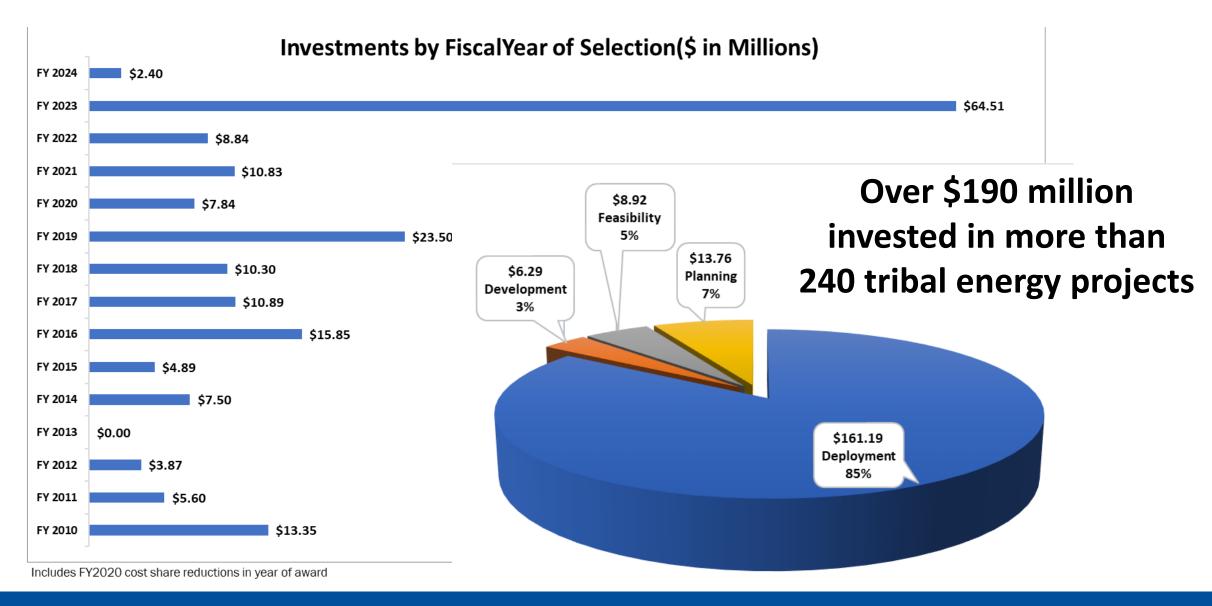
Office of Indian Energy Investments (2010–2024)

- More than \$190 million invested in over 240 tribal energy projects across the contiguous 48 states and Alaska
- Valued at more than \$300 million
- Leveraged by over \$125
 million in recipient cost share



For more information on funded projects, see: energy.gov/indianenergy/tribal-energy-projects-database

Financial Assistance Investments (2010-FY2024)



Financial Assistance Results (2010-2024)

- Over 63 MW of new generation installed
- Over 19 MWh of battery storage installed
- Over \$21 million saved every year
- Nearly \$530 million saved over system lifetimes
- \$3.29 saved for every DOE dollar invested
- Nearly 11,000 tribal buildings affected







Clockwise from top right: **Huslia Tribe Council (AK)** installed a community-scale biomass project to heat their community's buildings (2018); **Rosebud Sioux (SD)** solar system on low-income home (2016); **Alaska Village Electric Cooperative, Inc. (AVEC) and Bethel Native Corporation's (BNC)** installed a 900-kW turbine to power the communities of Bethel and Oscarville, AK.

Financial Assistance (2010-FY2024)

All Funds Awarded Through a Competitive Process

23 funding

opportunity announcements (FOA) issued

(Includes FOAs issued in 2009 for award in 2010)

790
applications
valued over
\$1 billion

Funded
33%
of all applications

(259 out of 789)

received

DOE average ~ 5%-10%

The Office of Indian Energy has primarily fulfilled the requirements under 42 U.S.C. § 7144e by providing cost-shared federal funding to Indian tribes and tribal entities through competitive financial assistance awards.



Recent Accomplishments - 2024

September 27, 2024

U.S. Department of Energy Announces Nearly \$44 Million for Clean Energy Planning and Deployment on Tribal Lands





FUNDING AND SELECTIONS \$18.8 Million in Funding For Six Tribes Plus \$25 Million in New **Funding Available**

September 26, 2024

U.S. Department of Energy Announces Over \$9 Million in Funding and Prizes for Tribal Colleges and Universities To Advance Clean Energy



New Initiatives Will Support Prizes for Student-Led Projects and Campus Transition Planning for Clean Energy



Success Stories



Fort Mojave Indian Tribe and Aha Macav Power Services

Community-Scale Solar System Installed in 2021 Saves Tribe More Than \$250,000 Annually

Need: Provide tribal homes and businesses with reliable, lowercost power; reduce dependence on outside power providers

Solution: 2.3-MW ground-mounted solar PV system

Total cost: \$4M (DOE \$3M; cost share \$1M)

Benefits:

- Generates ~10% of Tribe's energy needs
- Saves \$253,120 per year
- Creates jobs and provides training



Bethel Wind Energy Construction Project – 2017 Wind Project

75-meter wind turbine installed in Alaska to supply energy for more than 6,600 rural Alaskans

Need: Stabilize the costs of power and provide cleaner air for residents in Bethel, Oscarville, and Napakiak and reducing the use of diesel fuel

Solution: 900-kW wind turbine

Total cost: \$4.1M (DOE \$1M; cost share \$3.1M)

Benefits:

- Generates energy for about 2,900 buildings
- Saves up to \$1,106,000 in diesel fuel costs each year
- Reduces energy costs by about \$18 million over 20 years



Other Tribal Energy Successes



Aleut Community Store Deep Energy Retrofit (AK)

- Retrofit energy efficient systems
- Completed November 2020
- Project amounts:
 - DOE: \$494,458
 - Awardee: \$501,531

Total: \$995,989



San Pasqual Band of Mission Indians Microgrid (CA)

- 150-kW battery storage & more
- Completed October 2021
- Project amounts:
 - DOE: \$703,716
 - Awardee: \$703,716
 - Total: \$1,406,432



Nuvista Kwethluk Energy Storage (AK)

- 500-kW battery storage system
- Planned completion September 2025
- Project amounts:
 - DOE: \$447,050
 - Awardee: \$447,050
 - Total: \$954,100



Technical Assistance



Mike Stevenson, Engineer and Technical Assistance Lead







Mike is an engineer with the Office of Indian Energy and serves as a lead engineer and oversees the technical assistance the Office provides at no cost to Indian Tribes, Alaska Native villages, and Tribal and intertribal organizations.

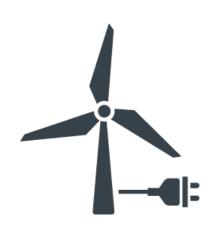
- Holds a Bachelor of Science degree in Electrical Engineering and a Master of Science degree in Infrastructure Planning and Management
- Previously served six-years as an electrical engineer with the Division of Energy and Mineral Development (DEMD), a Tribal Energy Office within the Bureau of Indian Affairs
- Brings over 20 years of experience as an electrical engineer with 10 years specifically assisting Tribal Energy Projects

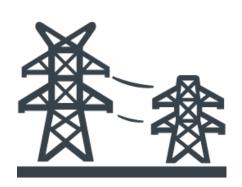
"I feel very blessed to get to do what I love, and I love talking energy with Tribes and helping them determine the best path forward given their goals and priorities and the resources available."

Technical Assistance

Goal: address a specific challenge or fulfill a need that is essential to a current project's successful implementation

Intended result: a tangible product or specific deliverable designed to help move a project forward



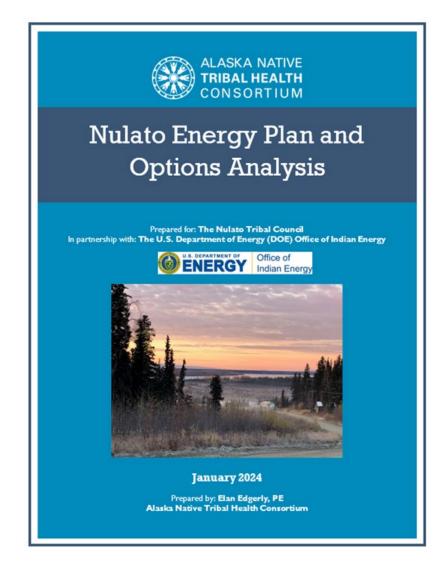




Technical Assistance - What We Do

We will provide a **tangible deliverable** that helps advance a current or theoretical energy project towards a go/no-go decision.

- Clean Energy Planning
- Energy Efficiency Assessments
- Resource Assessments
- Clean Energy Project Planning
- Building Codes and UtilityFormation



Technical Assistance - We Collaborate and are Flexible

 We collaborate with other DOE and federal and local partners in their effort to provide technical assistance to tribes

 We will entertain each request and try our best to accommodate even if it falls outside normal TA offerings, provided it aligns with the mission.



Technical Assistance - What We Don't Do

- Provide funding
- Provide legal advice
- Detailed engineering designs
- Prepare grant applications



Request Technical Assistance

Request Technical Assistance

Office of Indian Energy Policy and Programs

Eligibility

The following tribal entities are eligible for on-request technical assistance:

- Federally recognized Indian Tribes, including Alaska Native regional and village corporations (hereafter referred to as Tribes)
- Tribal entities, such as tribal energy development organizations, intertribal organizations, and other organized tribal groups.

Types of On-Request Technical Assistance

- Clean Energy Planning
- Energy Efficiency Assessments
- Resource Assessments
- Clean Energy Project Planning
- Building Codes and Utility Formation

Click Here to Request Technical Assistance

Education and Capacity Building



Jami Alley, Senior Engineer and NOFO Manager









Jami is a senior engineer with the Office of Indian Energy and serves as a NOFO manager, trainer and mentor to the deployment staff.

- Holds a Bachelor of Science degree in Civil Engineering
- Brings over 20 years of experience in commercial and residential buildings, including construction, clean energy project development, and management
- Has dedicated over 15 years to assisting Indian tribes in developing their energy resources and building their human capacity to realize their energy visions

"My work in Tribal energy has by far been the most inspiring and fulfilling work of her career, and she is honored to be a part of the team advancing the mission of the Office of Indian Energy for the ultimate benefit of American Indians and Alaska Natives."

Comprehensive Project Reporting

Online Tribal Energy Projects Database

- Interactive project map
- Project database (sortable)
- Project success stories
- Project summaries
 - Annual presentations
 - Final reports





Akwesasne Housing Authority on behalf of St. Regis Mohawk Tribe – 2016 Project

Office of Indian Energy Policy and Programs

Tome • Akwessene Housing Authority on behalf of St. Regis Mohawk Tribe - 2016 Pr

Summary

Initiative 1: Go S

Under the Community-Scale Akwessane Housing Authority (AIA) Go Solar Initiative, the St. Regis Mohawk AIA will install approximately 614.74 kilowatts (kW) of solar photovoltaic (PV) systems in Franklin County, New York, to serve 159 housing-related buildings on the Tribe's reservation. The ground-mounted PV systems will be installed on a 25-acre parcel owned by the Tribe, and the generated electrical power will be utilized under National Grid's net metering programs to offset energy use and costs for AIA's buildings and tribal members' residences.

This project will serve 5% of the total tribal community's residential energy load and 4% of the total electrical energy usage including governmental and commercial buildings. When considering all fuels used on the reservation, the project provides a 3.35% reduction of total energy load on the reservation.

Initiative 2: Net Ze

The Akwesasne Housing Authority will create three "netzero" buildings by installing energy efficiency measures and ISLS KW of solar PV, reducing annual energy costs by about \$36,200. Two of the buildings are part of the Sunrise Green Development project, a tribal alfordable housing development that will provide on-site services to tribal veterans, elders, and their families; the third is an existing building that houses the Akwesasne Boys & Girls Club.

Project Description

Background

Project Overview

Tribe/Awardee

Akwesasne Housing Authority

Location

Hogansburg, NY

roject Title

Community-Scale AHA Go Solar

Type of Application

Deployment

DOE Grant Numbe

DE-EE0000038

DOE: \$1,500,000

Awardee: \$1,837,831

Total: \$3,337,831

Project Status

See project status

Project Period of Performance

Start: July 2016

End: June 2019

Saint Regis Mohawk Tribe is a sovereign, federally acknowledged Indian tribe. The Tribal Council created the AHA by ordinance in July 1984 and has designated the AHA as its agency for purposes of administering the Tribe's Indian Housing Block Grant under the Native American Housing and Self-Determination Act of 1996. The St. Regis Mohawk Reservation is also known by its Mohawk name Akwessane. U.S. census data indicate that the total population is 2,919, and U.S. Post Office data confirm that there are 1,277 households on the reservation.

St. Regis Mohawk Tribe and AHA have worked together to develop a 10-Year Tribal Strategic Energy

Funding Resources

Current Funding Opportunities Office of Indian Energy Policy and Programs Tribal Clean Energy Planning and Development (DE-FOA-0003401) - \$25 Million Under this funding opportunity announcement (FOA), the Office of Indian Energy is soliciting applications from Indian Tribes, which include Alaska Native Regional Corporations and Village Corporations, Intertribal Organizations, and Tribal Energy Development Applications are due by Conduct clean energy planning; Comprehensively assess the feasibility and viability of deploying clean energy technology; or, Conduct clean energy design and development activities. Jan. 23, 2025, at 5 p.m. ET. DOE expects to make approximately \$25 million of federal funding available under this FOA, with approximately 20-40 awards that Download the funding opportunity announcement (DE-FOA-0003401) to learn more and apply. View the FOA webinar recording and slides for more information. Download the Fact Sheet □ Tribal Colleges and Universities Planning for Clean Energy Transition (DE-FOA-0003403) - \$5 Million Under this funding opportunity announcement (FOA), the Office of Indian Energy is soliciting applications from Tribal Colleges and Universities for planning to transition their campuses to clean energy. Eligible clean energy planning activities, may include, but are not limited to: strategic energy planning: energy options analysis; energy audits; developing an energy organization or office; climate resiliency planning; establishing energy policy, regulations, or codes; and, obtaining skills and training related to energy use, development, or management. Applications are due by Dec. 18, 2024, at 5 p.m. ET. No recipient cost share is required under this EOA DOE expects to make approximately \$5 million of federal funding available for new awards under this FOA, making approximately 15 to 35 awards ranging from \$100,000 to \$350,000. Download the funding opportunity announcement (DE-FOA-0003403) to learn more and apply. View the FOA webinar recording and slides for more information. Download the Fact Sheet □ American-Made TCU Energy and Food Sovereignty Nexus Prize - \$4.1 million The Energy and Food Sovereignty Nexus Prize encourages Tribal Colleges and Universities (TCUs) to develop student-led demonstration projects that increase their knowledge on clean energy and food sovereignty on TCU campuses. Phase 1 prize submissions are due Dec. 4, 2024, at 5 This prize is intended to build the capacity of TCU students to use clean energy to grow food self-sufficiently with sources on Tribal lands. One student team from each of the 35 TCUs is eligible to apply and will be recognized for their work. Visit the prize page to learn more and apply D View the prize webinar recording of for more information.

https://www.energy.gov/indianenergy/current-funding-opportunities



Tribal Clean Energy Funding Opportunities

The U.S. Department of Energy (DOE) Office of Indian Energy Policy and Programs (Office of Indian Energy), DOE Offices, and other government entities provide funding and financing on a formula and competitive basis to support the development and deployment of clean energy infrastructure and technology on Tribal lands. In addition to the \$75 million committed to Tribal energy projects selected in 2023, the Office of Indian Energy has invested over \$120 million in more than 210 Tribal energy projects across the United States between 2010 and 2022, valued at nearly \$215 million.

Current Funding Opportunities for Indian Tribes and Tribal Entities

For questions regarding a specific funding opportunity in this table, please contact the listed agency.

Title	Description	Agency	Amount	Deadline
Indian Energy Purchase Preference EAC Purchase	The U.S. General Services Administration (GSA) is requesting quotes from Tribal energy organizations to provide Energy Attribute Certificates (EACs), e.g. Renewable Energy Credits, for federal agencies to buy in pursuit of meeting clean energy goals. The U.S. GSA is requesting quotes for up to a total amount of 47,500 megawatt-hour (MWh) of unbundled EACs from generation resources that deliver to certain Balancing Authorities more fully described in the solicitation.	U.S. GSA	N/A	June 24, 2024
Low-Income Communities Bonus Credit Program	This program, under §48(e) of the Internal Revenue Code promotes cost-saving clean energy investments in low- income communities, and on Indian land, as part of affordable housing developments, and benefitting low- income households. The Program provides a process for owners of qualified solar or wind facilities to apply for an allocation of Capacity Limitation that increases the existing §48 energy investment credit by 10 or 20 percentage points.	DOE Office of Energy Justice and Equity (EJE)	N/A	June 27, 2024
Rural Energy for America Program: Renewable Energy Systems and Energy Efficiency Improvements	Grants under this program will help agricultural producers and rural small businesses invest in renewable energy systems and energy efficiency improvements. These grants are available under the Rural Energy for America Program and will prioritize communities that are marginalized, underserved, and overburdened by pollution.	U.S. Department of Agriculture (USDA)	\$1 billion	Quarterly deadlines: June 30, 2024 September 30, 2024
Rural Community Development Initiative Grants	Grants under this program will provides funding to organizations that provide financial and technical assistance for housing, community facilities, or community and economic development projects. Eligible applicants include public (including Tribal) organizations, nonprofit organizations, and qualified private organizations.	USDA	\$5 million	July 10, 2024
Clean Heavy Duty Vehicles Grant Program	This funding opportunity will incentivize and accelerate the replacement of existing non-zero-emission Class 6 and 7 heavy-duty vehicles with zero-emission class 6 and 7 vehicles. This funding to support zero-emission vehicles will benefit communities that are disproportionately burdened by air pollution and marginalized by underinvestment. Funding may also be used for zero-	U.S. Environmental Protection Agency (EPA)	At least \$400 million	July 25, 2024

Current as of June 17, 2024



Curriculum and Resources

Information Resources

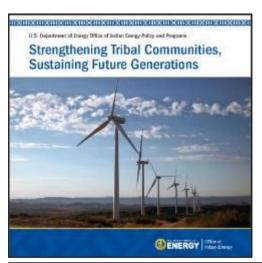
- Energy Resource Library features publications, websites, videos, and more
- Curriculum includes foundational and advanced courses, educational webinars

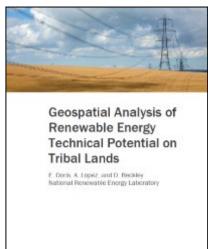
Workshops and Webinars

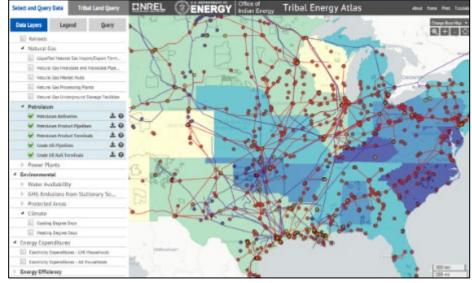
- Monthly webinars presents foundational information, resources, and case studies
- Periodic workshops address specific topics

Tribal Energy Atlas

 Interactive geospatial tool enables tribes to conduct their own data-driven analysis







Annual Program Review

Unique Tribal Forum for Sharing and Learning

- Opportunity for tribes to meet and learn from each other and to share their successes and challenges
- Networking and learning opportunity
- Learn about 40 to 50 tribal energy projects from across the country
- ~200 participants
- Typically held in November



https://www.youtube.com/watch?v=dRCi5ACECqc

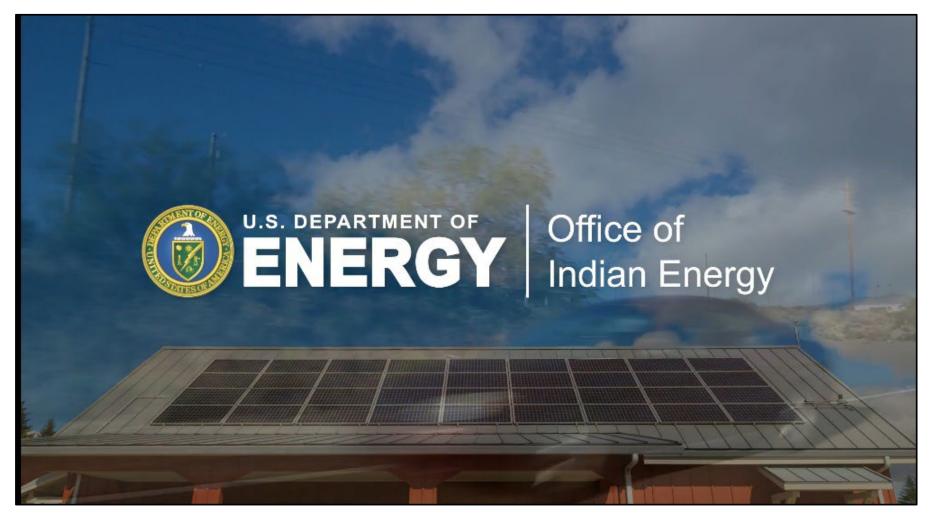
2024 Office of Indian Energy Program Review | Department of Energy



Closing



DOE's Office of Indian Energy: Partners in Tribal Energy Development



https://www.youtube.com/watch?v=JIL6h2Dp68E

Engage With Us to Learn More



Office of Indian Energy

(240) 562-1352



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Questions?



Thank you!



