

DOE OFFICE OF INDIAN ENERGY

# Office Overview

## IACC 2023 Conference

Tweedie Doe, Lead Project Officer





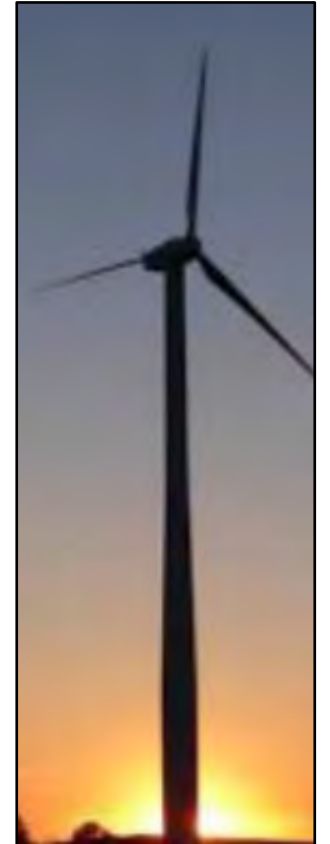
# About Us



# 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.

# Deployment Program

## Financial Assistance



Provides funding and financing to support tribal energy development

## Technical Assistance



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

## Education and Capacity Building



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



# Meet the Team



# Leadership



**Wahleah Johns,**  
Director,  
Washington, D.C.



**David Conrad,**  
Deputy Director,  
Washington, D.C.

# Meet the Team



Comprised of 15 federal employees and 11 contractors stationed across the country.

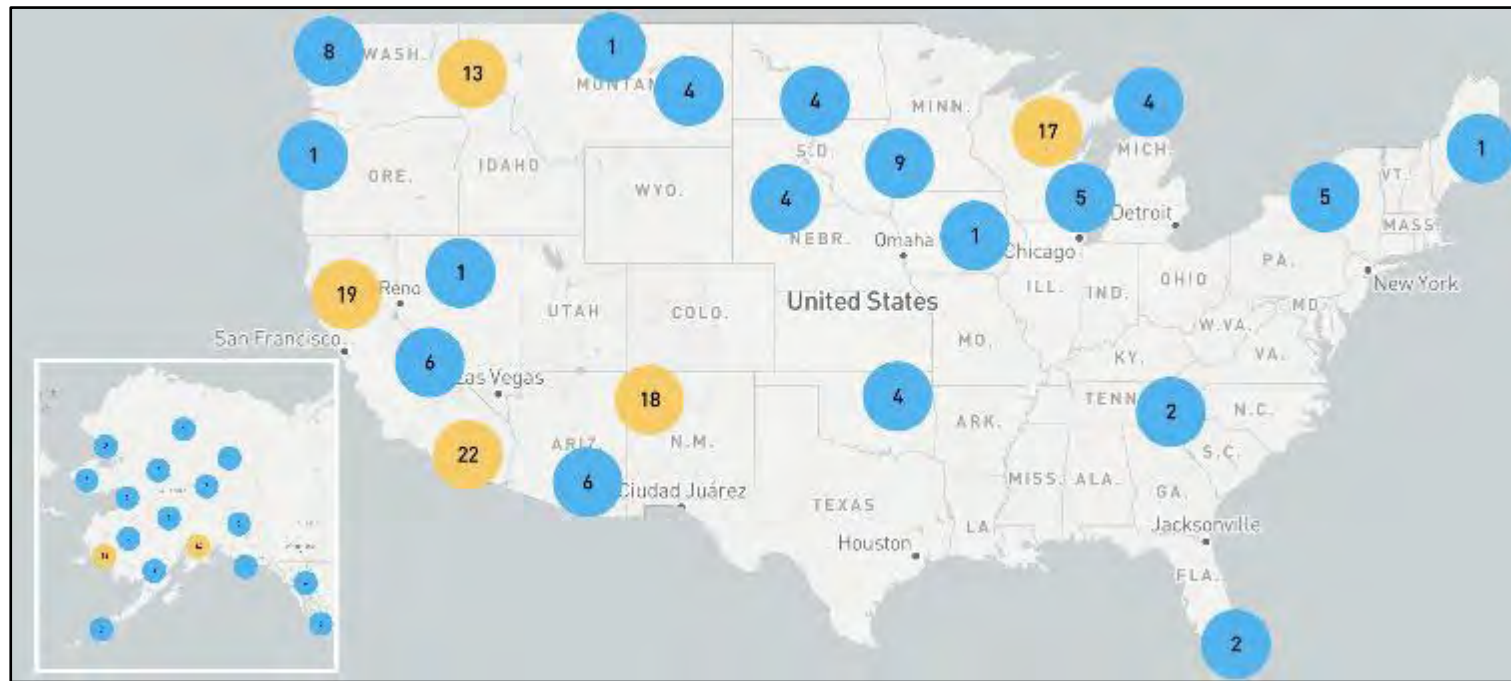


# Program Financial Assistance and Investments



# Office of Indian Energy Investments 2010–2022

- More than **\$120 million invested** in over **210 tribal energy projects** across the contiguous 48 states and Alaska
- Valued at more than **\$215 million**
- Leveraged by over **\$93 million** in recipient cost share



For more information on funded projects, see:  
[energy.gov/indianenergy/tribal-energy-projects-database](https://energy.gov/indianenergy/tribal-energy-projects-database)

## Financial Assistance Results (2010-2022)

- Nearly 46 MW of new generation installed
- Nearly 13 MWh of battery storage installed
- Over \$14.4 million saved every year
- Nearly \$315 million saved over system lifetimes
- \$3.38 saved for every DOE dollar invested
- Nearly 8,800 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.

## All Funds Awarded Through a Competitive Process

**18**  
funding  
opportunity  
announcements  
(FOA) issued

(Includes FOAs issued in 2009  
for award in 2010)

Accepted nearly  
**690**  
applications  
valued at nearly  
**\$742 million**

Funded over  
**32%**  
of all applications  
received  
(223 out of 687)

DOE average ~ 5%-10%

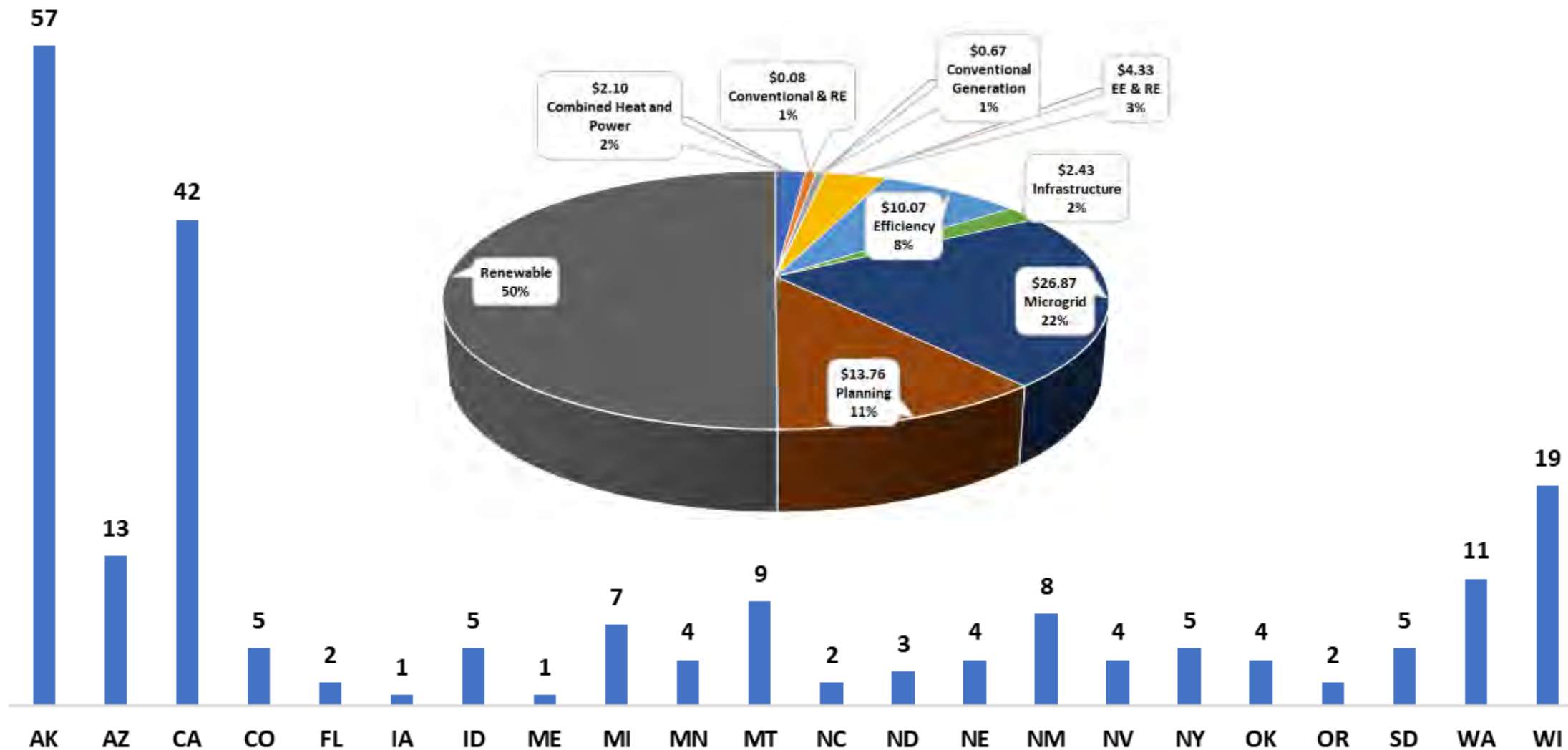
The Office of Indian Energy has primarily fulfilled the requirements under 42 U.S.C. § 7144e by providing cost-shared federal funding to Indian tribes and tribal entities through competitive financial assistance awards.

# 2023 Investment in Tribal Energy Projects



In 2023, the Office of Indian Energy announced an additional \$72 million for over 30 tribal energy projects across the Nation. These projects collectively are estimated to result in over 18 MW of new clean energy generation, affect 2,300 tribal buildings and save those communities \$225 million over the life of those systems.

# Investments by Technology and State (2010-2022)





# Success Stories



# Tribal Energy Successes – Solar



## Spokane Housing Authority (WA)

- 652.5 kW on 32 buildings/homes
- Completed December 2022
- Project amounts:
  - DOE: \$1,000,000
  - Awardee: \$1,013,181
  - Total: \$2,013,181



## Ute Mountain Ute Tribe (CO)

- 1 MW solar system
- Completed September 2019
- Project amounts:
  - DOE: \$973,820
  - Awardee: \$1,196,576
  - Total: \$2,170,396



## San Xavier Education Building (AZ)

- 182 kW solar system
- Completed April 2022
- Project amounts:
  - DOE: \$501,267
  - Awardee: \$501,268
  - Total: \$1,002,535

# 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, lower-cost 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





## Tribal Successes – Wind



### Chaninink Wind Group (AK)

- Five 90 kW Wind Turbines
- Completed March 2012
- Project amounts:
  - DOE: \$750,000
  - Awardee: \$1,250,000
  - Total: \$2,000,000



### Seneca Nation (NY)

- 1.8 MW Wind Turbine
- Completed June 2017
- Project amounts:
  - DOE: \$1,500,000
  - Awardee: \$4,520,125
  - Total: \$6,020,125

# 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 Mission of Indians Microgrid (CA)

- 150kW 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 2023
- Project amounts:
  - DOE: \$447,050
  - Awardee: \$447,050
  - Total: \$954,100

# Ishkonige Nawadide – Microgrid and Solar Project Bad River Band of Lake Superior Tribe of Chippewa Indians

**Solar microgrid provides battery storage for three vital public facilities including 100% of electric usage at Wastewater Treatment Plant & Health Clinic**

**Need:** Mitigate and prepare for consequences of hazards and effectively respond and recover in event of an emergency or disaster after 500-year flood

**Solution:**

- 1,000 kWh Battery Energy Storage Systems with “smart controls”
- 3 solar systems (500 kWh) at essential tribal buildings

**Total cost:** \$2M (DOE \$1M; cost share \$1M)

**Benefits:**

- Reduces electric bills by \$841,000 over 25 years
- Solar to offset equivalent of 487 tons of CO2 emissions per year
- Independent of the grid





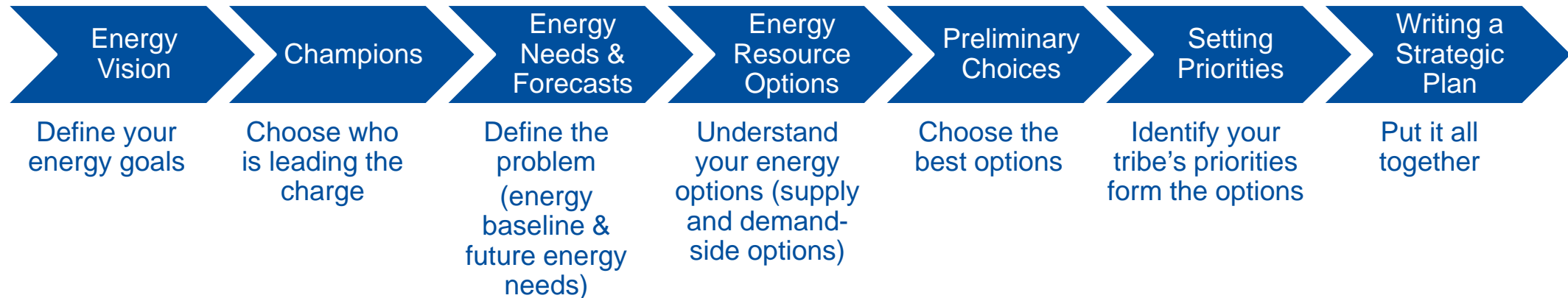
# Technical Assistance

# 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**

## Strategic Energy Planning



## Request Technical Assistance

Office of Indian Energy Policy and Programs

### Eligibility

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

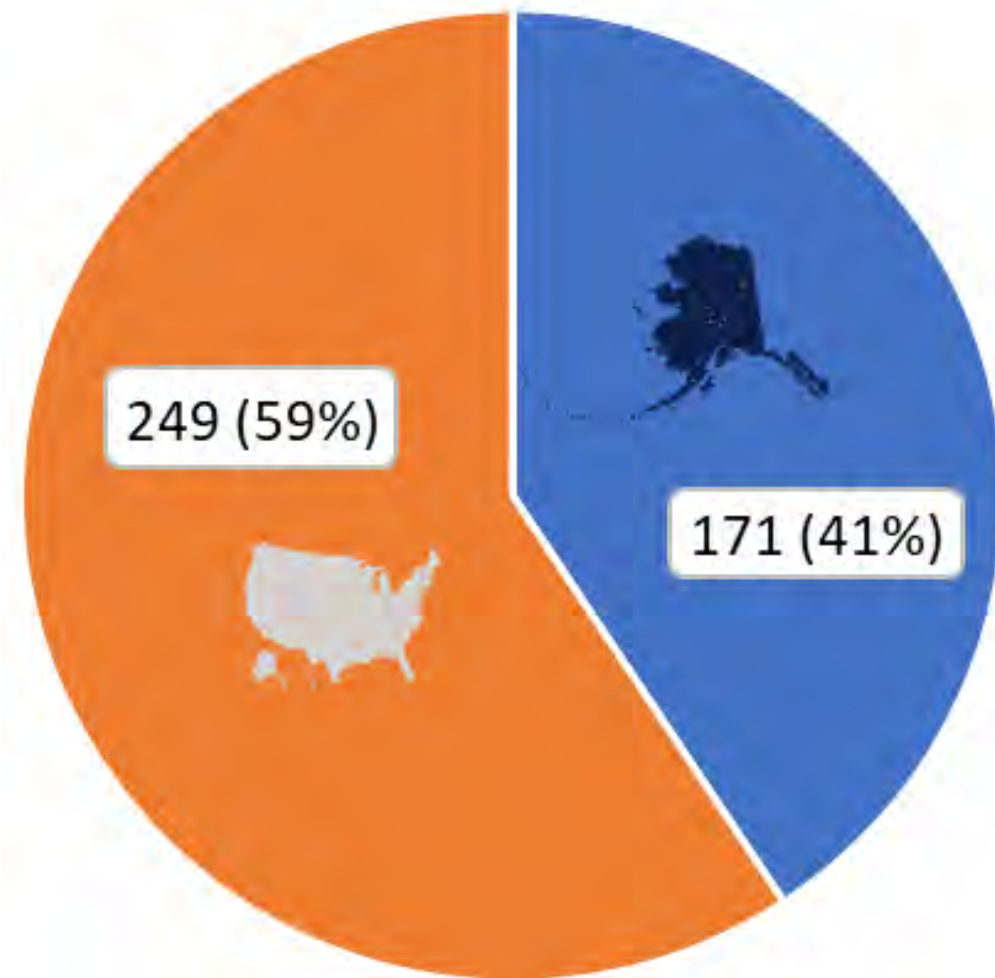
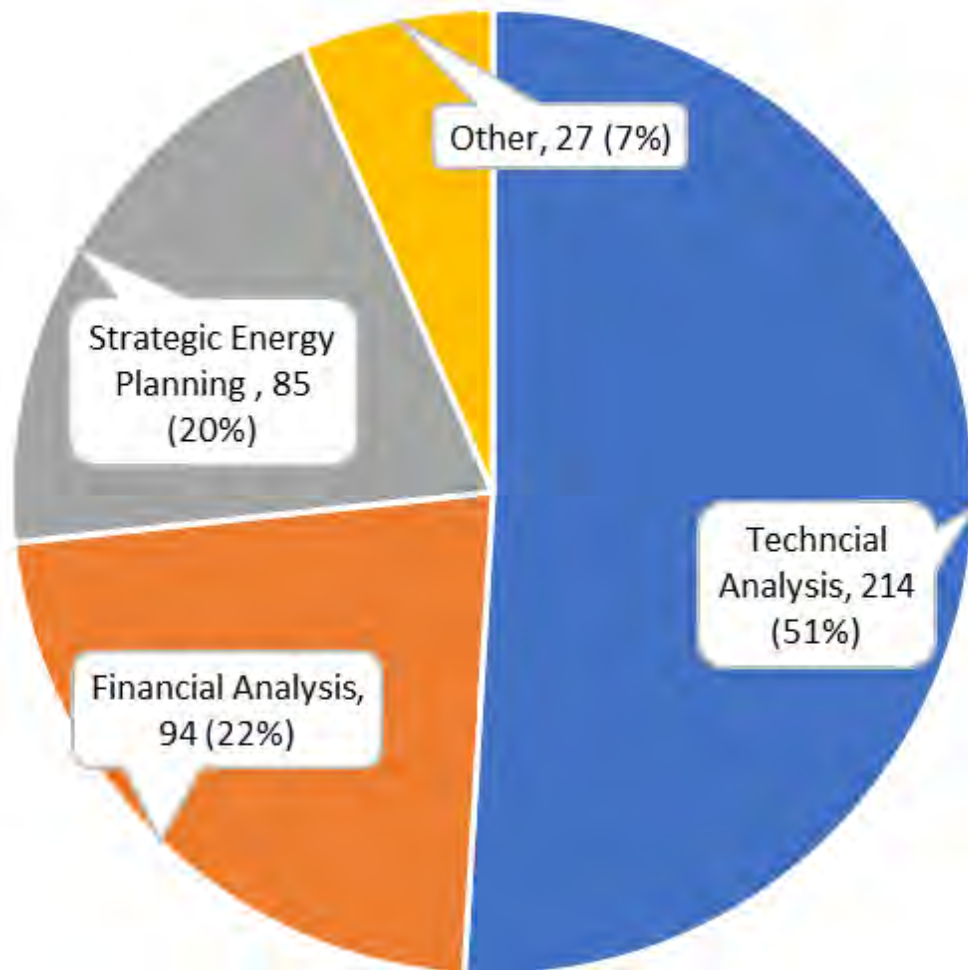
- Federally recognized Indian Tribes, including Alaska Native regional and village corporations (hereafter referred to as Tribes)
- Tribal entities, such as tribal energy development organizations, intertribal organizations, and other organized tribal groups.

### Types of On-Request Technical Assistance

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

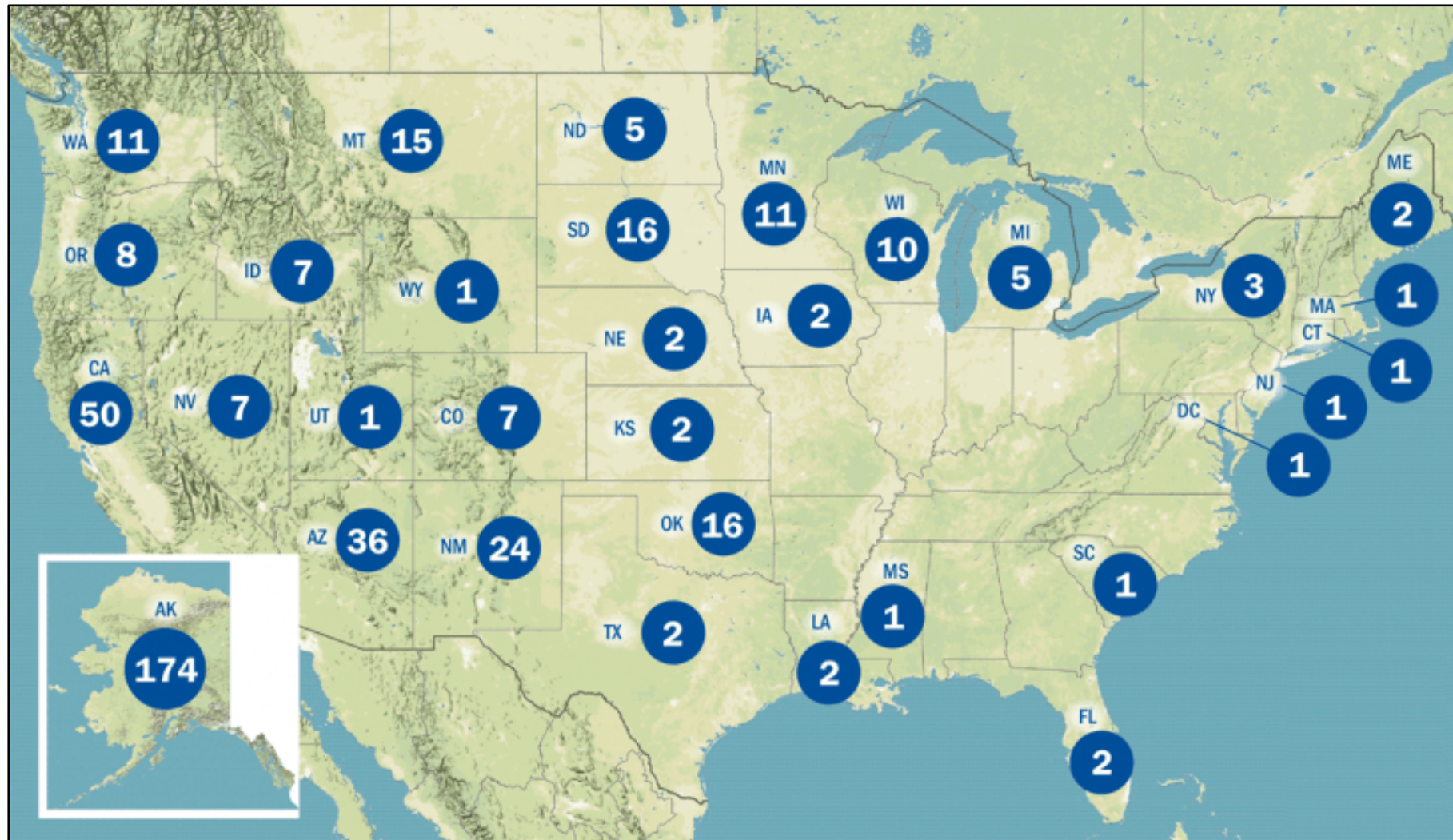


# Completed Technical Assistance Requests (2010-2022)





# Completed Technical Assistance Requests (2010-2022)





# Education and Capacity Building

# Comprehensive Project Reporting

## Online Tribal Energy Projects Database

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

Show 10 entries

Project	Tribal	State	Year	Assistance Type	Category	Technology
Agua Caliente Band of Caballero Indians - 2010 Project	Agua Caliente Band of Caballero Indians	California	2010	Feasibility	Grant	Solar
Agua Caliente Band of Caballero Indians - 2012 Project	Agua Caliente Band of Caballero Indians	California	2012	Feasibility	Grant	Renewable Energy (Multiple Technologies)
Agua Caliente Band of Caballero Indians 2015 Project	Agua Caliente Band of Caballero Indians	California	2015	Deployment	Grant	Solar
Alaska Tribal Resource Consortium - 2016 Project	Alaska Tribal Resource Consortium	Alaska	2016	Planning	Grant	Renewables
Alaskan Native Community - 2017 Project	Alaskan Native Community	Alaska	2017	Final Stage (Planning)	Grant	Energy Efficiency
Akwesasne Housing Authority (on behalf of St. Regis Mohawk Tribe) - 2016 Project	Akwesasne Housing Authority	New York	2016	Deployment	Grant	Solar
Alaska Native Tribal Health Consortium (ANTHC) - 2016 Project	Alaska Native Tribal Health Consortium (ANTHC)	Alaska	2016	Deployment	Grant	Energy Efficiency
Alaska Native Tribal Health Consortium - 2011 Project	Alaska Native Tribal Health Consortium	Alaska	2011	Deployment	Grant	Energy Efficiency
Alaska Native Tribal Health Consortium - 2010 Project	Alaska Native Tribal Health Consortium	Alaska	2010	Planning	Grant	Energy Efficiency
Alaska Village Electric Cooperative (on behalf of In-Belted Native Corporation) - 2017 Project	Alaska Village Electric Cooperative	Alaska	2017	Deployment	Grant	Wind

Showing 1 to 10 of 171 results



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

Office of Indian Energy Policy and Programs

Home » Akwesasne Housing Authority on behalf of St. Regis Mohawk Tribe - 2016 Project

#### Summary

**Initiative 1: Go Solar**

Under the Community-Scale Akwesasne Housing Authority (AHA) Go Solar Initiative, the St. Regis Mohawk AHA 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 AHA'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 Zero**

The Akwesasne Housing Authority will create three "net-zero" buildings by installing energy efficiency measures and 161.5 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 affordable 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 Overview

**Tribal/Awardee**  
Akwesasne Housing Authority

**Location**  
Hogansburg, NY

**Project Title**  
Community-Scale AHA Go Solar Initiative and Net Zero Initiative

**Type of Application**  
Deployment

**DOE Grant Number**  
DE-EE0000038

**Project Amounts**  
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

#### Project Description

##### Background

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 Akwesasne. 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

- Open tribal energy related funding opportunities from federal agencies and other sources

## Ongoing Funding Opportunities

- Ongoing sources of funding, including grants, loans, loan guarantees, and other incentives across the federal government

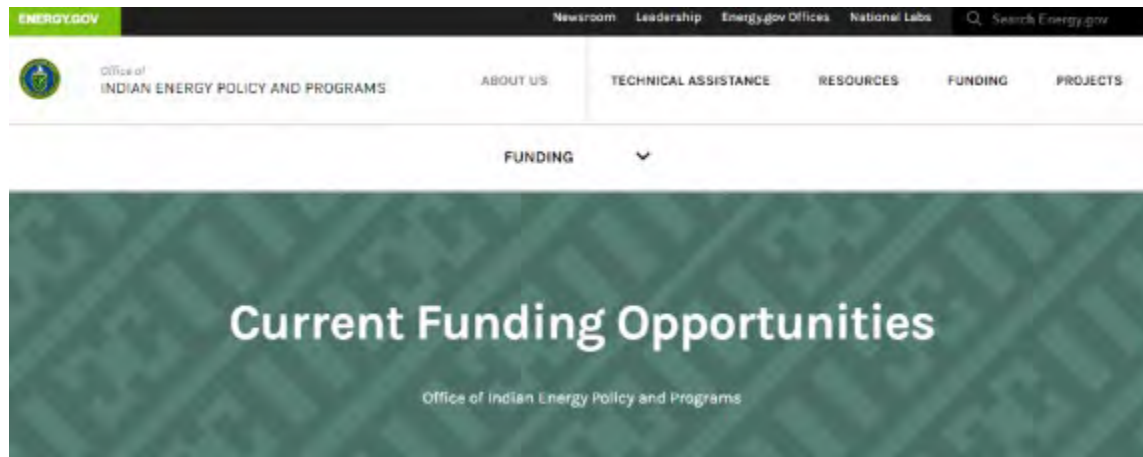
## Past Funding Opportunities

- Information on prior Office of Indian Energy funding opportunities

The image shows a screenshot of the Office of Indian Energy website. The main heading is "Ongoing Funding Opportunities". Below it, there is a search bar and a list of funding opportunities. The page is titled "Current Funding Opportunities" and includes a sub-heading "Office of Indian Energy/NECE Programs". The content lists various funding opportunities, including "Clean Energy Technology Deployment for Tribal Lands (DOE IOA DC025054)", "Funding Opportunities Announcement", "Informational Webinar", and "Summit on Tribal Energy". It also lists "Authorized Office of Indian Energy Funding" and "Past Funding Opportunities". A table at the bottom lists "Date Issued", "Status", and "Description" for various funding opportunities.

Date Issued	Status	Description
7/23/2024	Open	Funding Opportunity Announcement (FOA) for Tribal Energy (DOE IOA DC025054)
7/23/2024	Open	Funding Opportunity Announcement (FOA) for Tribal Energy (DOE IOA DC025054)
7/23/2024	Open	Funding Opportunity Announcement (FOA) for Tribal Energy (DOE IOA DC025054)

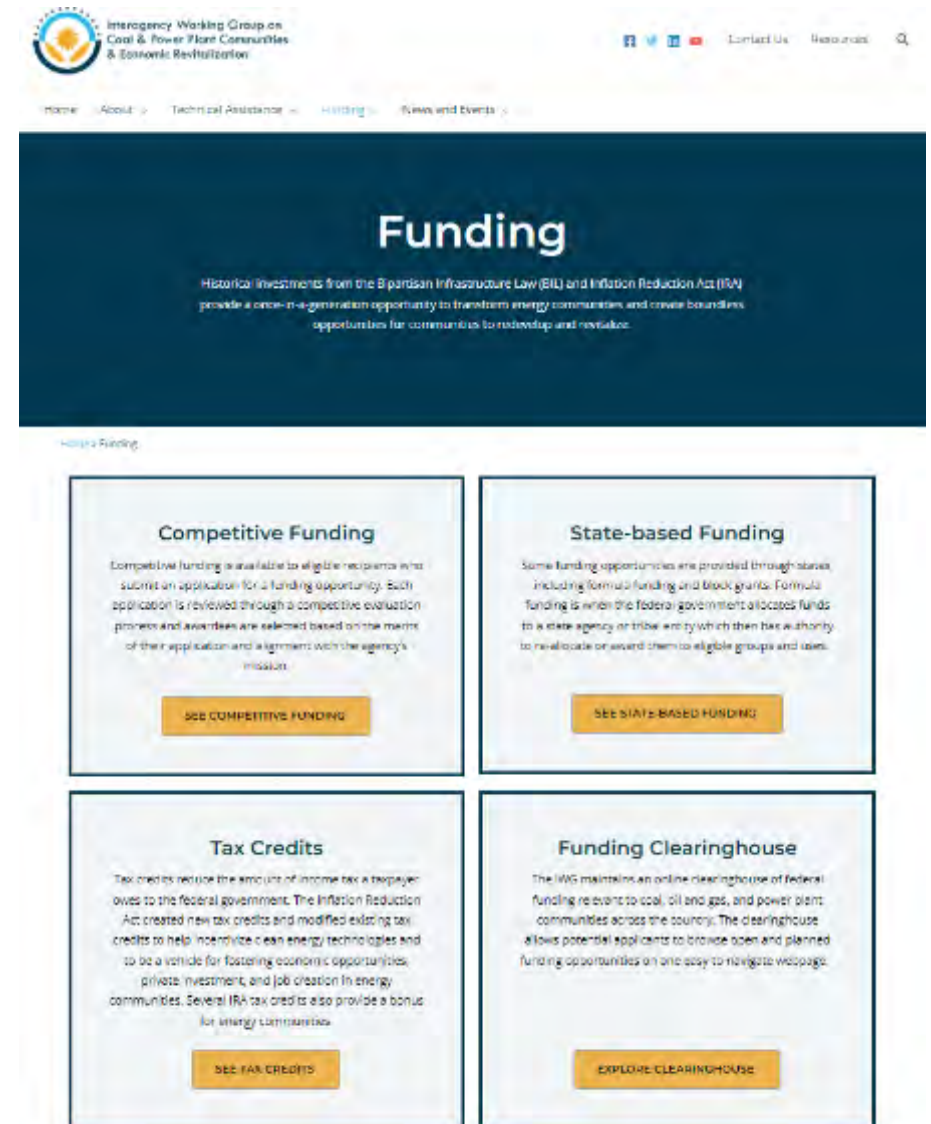
# Funding Resources



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



<https://www.energy.gov/clean-energy-infrastructure/clean-energy-infrastructure-program-and-funding-announcements>



<https://energycommunities.gov/funding-opportunities/>

# Other Funding Opportunities

Title	Description	Agency	Amount	Deadline
<a href="#"><u>Assistance to High Energy Cost Communities</u></a>	This grant program is designed to assist communities with extremely high energy costs. The grant funds may be used to acquire, construct, or improve energy generation, transmission, or distribution facilities serving communities where the average annual residential expenditure for home energy exceeds 275% of the national average.	United States Department of Agriculture (USDA) Rural Utilities Service (RUS)	\$10 million	October 31, 2023
<a href="#"><u>Transmission Siting and Economic Development Program</u></a>	This initiative is designed to overcome state and local challenges to expanding transmission capacity while also supporting communities along major new and upgraded lines. DOE will support two distinct categories of activities related to the development of new or upgraded interstate and offshore transmission lines: siting and permitting and economic development.	DOE Grid Deployment Office (GDO)	\$300 million	Concept Paper: October 31, 2023  Full application: April 5, 2024
<a href="#"><u>Energy Future Grants (EFG): Creating a Community-Led Energy Future</u></a>	This grant program provides financial assistance and technical assistance to support local, state, and Tribal government-led partnership efforts that will advance clean energy program innovation. EFG seeks to enhance energy affordability and access for communities, ensuring the broad benefits of a clean energy economy—including health, economic development and jobs and emissions reductions—flow to disadvantaged communities.	DOE State and Community Energy Programs (SCEP)	\$27 million	November 10, 2023
<a href="#"><u>Communities Local Energy Action Program (LEAP)</u></a>	This program support efforts in disadvantaged communities and those with historical ties to fossil fuel industries to take control of their clean energy future. Communities will receive technical assistance to develop and advance locally driven energy plans to reduce local air pollution, increase energy resilience, lower utility costs and energy burdens, and create good-paying jobs.	Multiple office partnership within the DOE complex	\$18 million	December 14, 2023

# Other Funding Opportunities

Title	Description	Agency	Amount	Deadline
<a href="#"><u>Tribal Electrification Program (TEP)</u></a>	This program will provide financial and technical assistance to Tribes to connect homes to transmission and distribution that is powered by renewable energy; provide electricity to unelectrified Tribal homes through zero-emissions energy systems; transition electrified Tribal homes to zero-emissions energy systems; and support associated home repairs and retrofitting necessary to install the zero-emissions energy systems	U.S. Department of the Interior (DOI) Indian Affairs  Office of Indian Economic Development (OIED)	\$72.5 million in initial funding  \$150 million total funding	Full application: December 22, 2023
<a href="#"><u>Rural Energy for America Program (REAP)</u></a>	The program provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements. Agricultural producers may also apply for new energy efficient equipment and new system loans for agricultural production and processing.	USDA	Renewable Energy System Grants: \$1 million max per applicant  Energy Efficiency Grants: \$500k max per applicant	December 31, 2023
<a href="#"><u>Energy Efficiency and Conservation Formula Grant Program</u></a>	Formula grants are available to reduce energy use, reduce fossil fuel emissions, and improve energy efficiency.	DOE SCEP	Formula allocations	January 31, 2024
<a href="#"><u>Tribal Energy Financing</u></a>	This program supports Tribal investment in energy-related projects by providing direct loans or partial loan guarantees. DOE can support a broad range of projects and activities for the development of energy resources, products, and services that utilize commercial technology.	DOE Loan Programs Office (LPO)	\$20 billion for loans or guarantees  \$80 million for associated costs	No deadline, application open

# Curriculum and Resources

## Information Resources

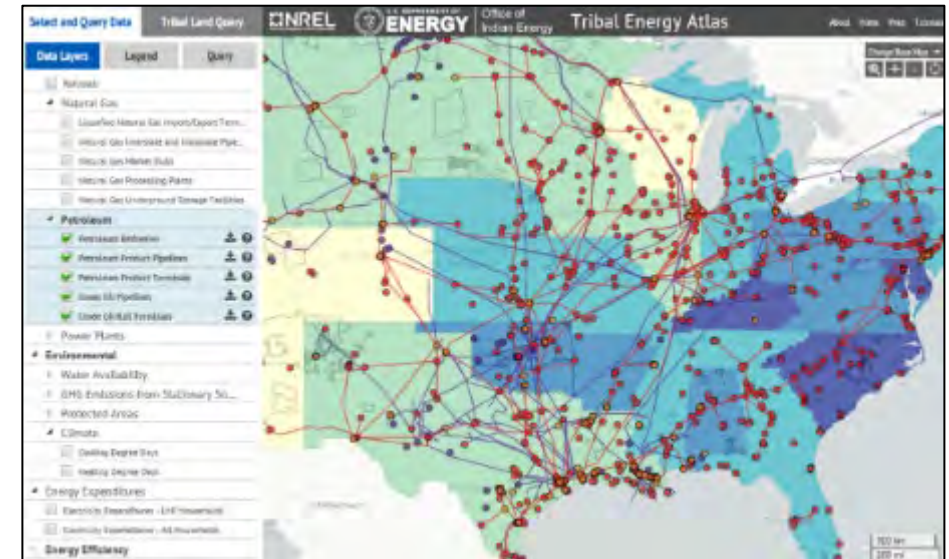
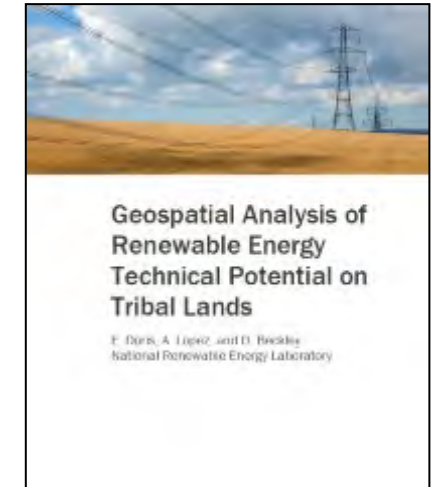
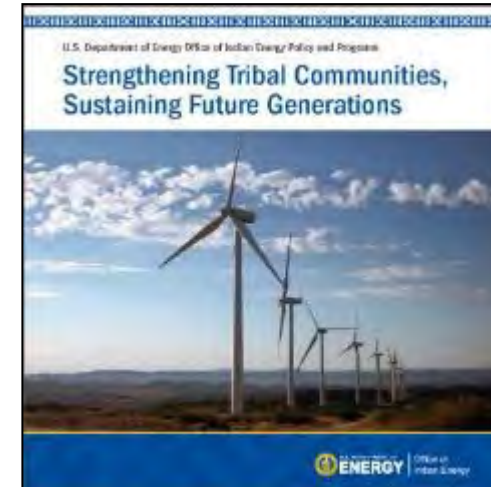
- Energy Resource Library features publications, websites, videos, and more
- Curriculum includes foundational and advanced courses, educational webinars

## 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





# Outreach and Communications

## Listening Sessions

- IE/LPO Funding & Financing Listening Session, May 2021 (586 registered; 369 attendees)
- IE Energy Access & Reliability Listening Session (Congressional Report), November 2021/July 2022 (~300 attendees; majority tribal representatives)

## Monthly Webinars

- Monthly webinars provide foundational information, resources, and case studies
- Statistics: 1,100+ total attendees in FY 2022; ~140 per webinar

## Email Newsletters

- Highlight funding, upcoming events, and tribal energy related news
- Statistics: 20,000+ subscribers
  - Over 5.3k new subscribers in FY2023



# 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



**November 13-16, 2023, in Denver, Colorado**

For more, see <https://www.energy.gov/indianenergy/projects/program-review>

# Engage With Us to Learn More



## Office of Indian Energy

(240) 562-1352



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[energy.gov/indianenergy](https://energy.gov/indianenergy)



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## Social Media



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# Questions?

# Thank you!

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720-585-4999

