

DOE OFFICE OF INDIAN ENERGY

# Supporting Tribal Energy Sovereignty

David Conrad, Deputy Director





# Meet the Team

## Office of Indian Energy leadership



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



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



**Lizana Pierce**  
Deployment Supervisor  
Denver, CO

## Meet the Team

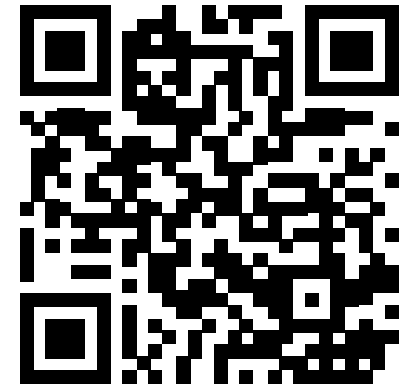


Comprised of 14 federal employees and 10 contractors stationed across the country, from Washington, DC, to Colorado to Alaska.

# Join the Office of Indian Energy team – Hiring Engineers!

## How to Apply:

- Submit your application to the **DOE Clean Energy Corps Portal**
- During the “Disclosures” step, under “Applicant Source,” select “Other” and provide the referral code: **#IndianEnergy** to direct your resume to the appropriate hiring managers and select “submit”.
- Please note that the referral code is case-sensitive and must be entered as #IndianEnergy.
- **Remote positions available**
- Must be a U.S. Citizen or National
- Pay will vary by grade level and geographic location
- Bachelor’s degree or higher required
- [www.energy.gov/applicant-portal](http://www.energy.gov/applicant-portal)



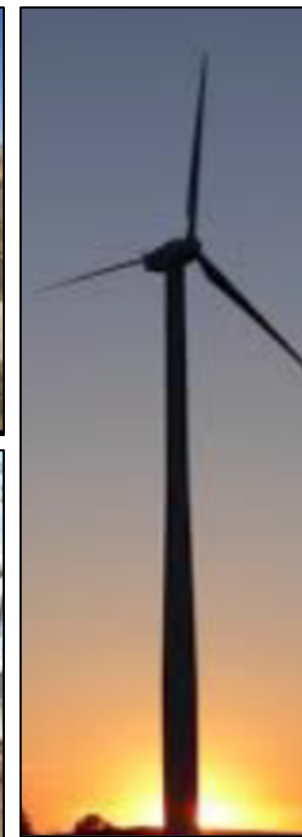


# About Us

## 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

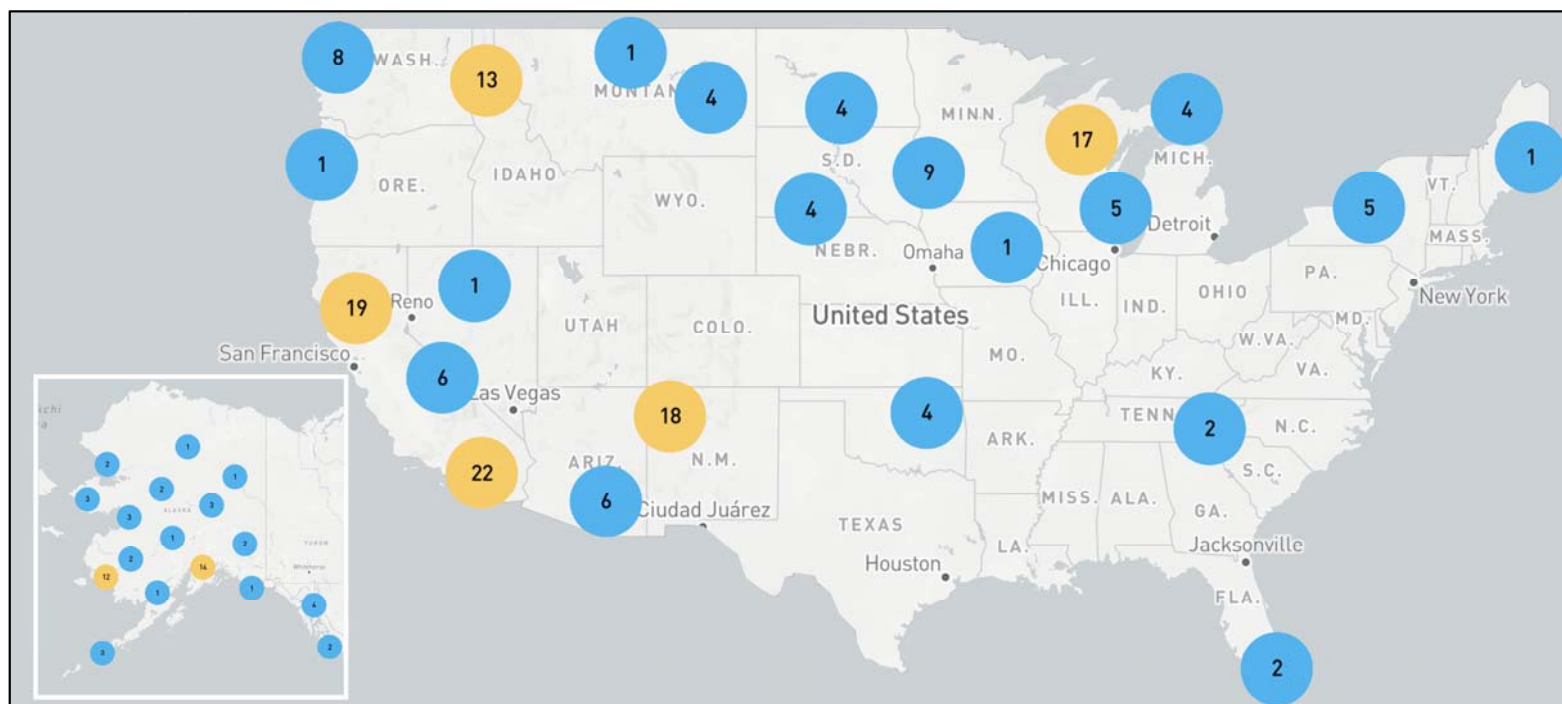


Supports internal capacity building to develop energy projects and navigate energy markets



## Financial Assistance: Office of Indian Energy Investments 2010–2022

- More than **\$120 million** invested in over **210 tribal energy projects**
- 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)


# Office of Indian Energy – Current funding announcements

## FUNDING OPPORTUNITY



**\$50M for Clean Energy Deployment**

## FUNDING OPPORTUNITY



**\$15 Million Available to Tribal Colleges and Universities for Clean Energy Projects**



# Program Financial Assistance and Investments

## Financial Assistance

### 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.

## Financial Assistance Results (2010-2022)

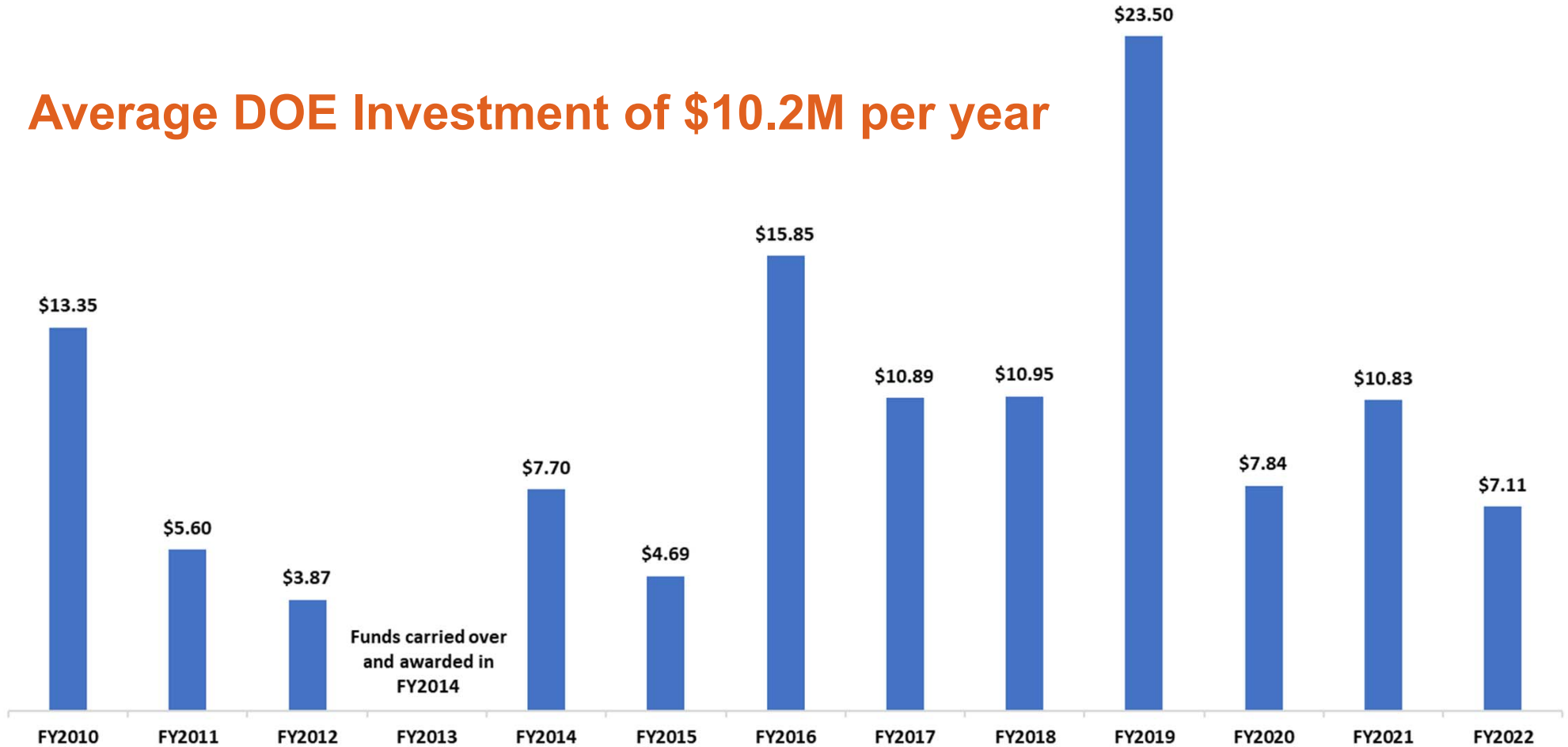
- Nearly **46 MW** of new generation installed
- Nearly **13 MWh** of battery storage installed
- Over **\$14.4 million** saved every year
- Nearly **\$315 million** saved over system lifetimes
- **\$3.38** saved for every DOE dollar invested
- Nearly **8,800** tribal buildings affected



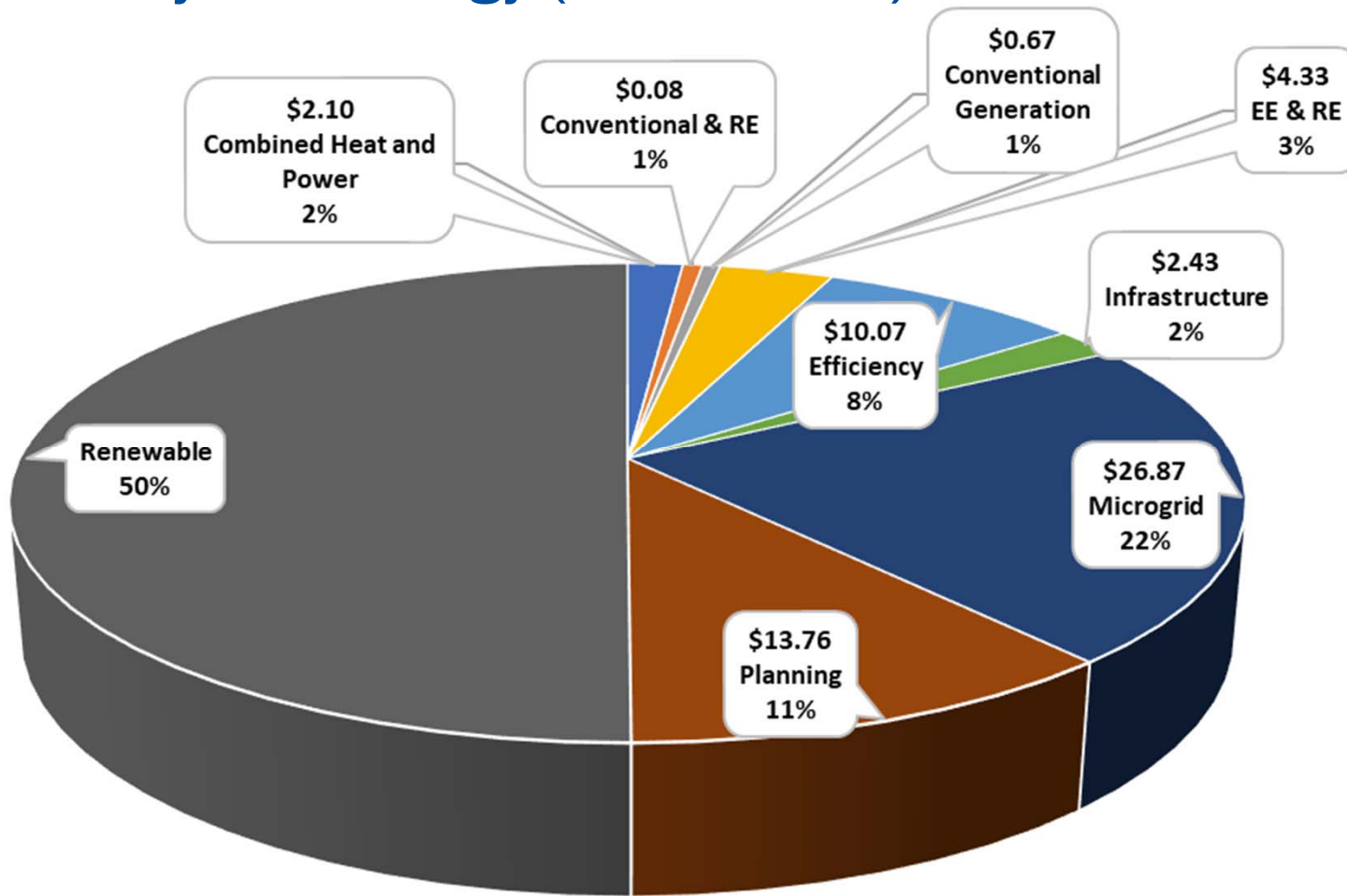
**Top: Huslia Tribe Council (AK)** installed a community-scale biomass project to heat their community's buildings (2018)  
**Bottom: Rosebud Sioux (SD)** solar system on low-income home (2016)

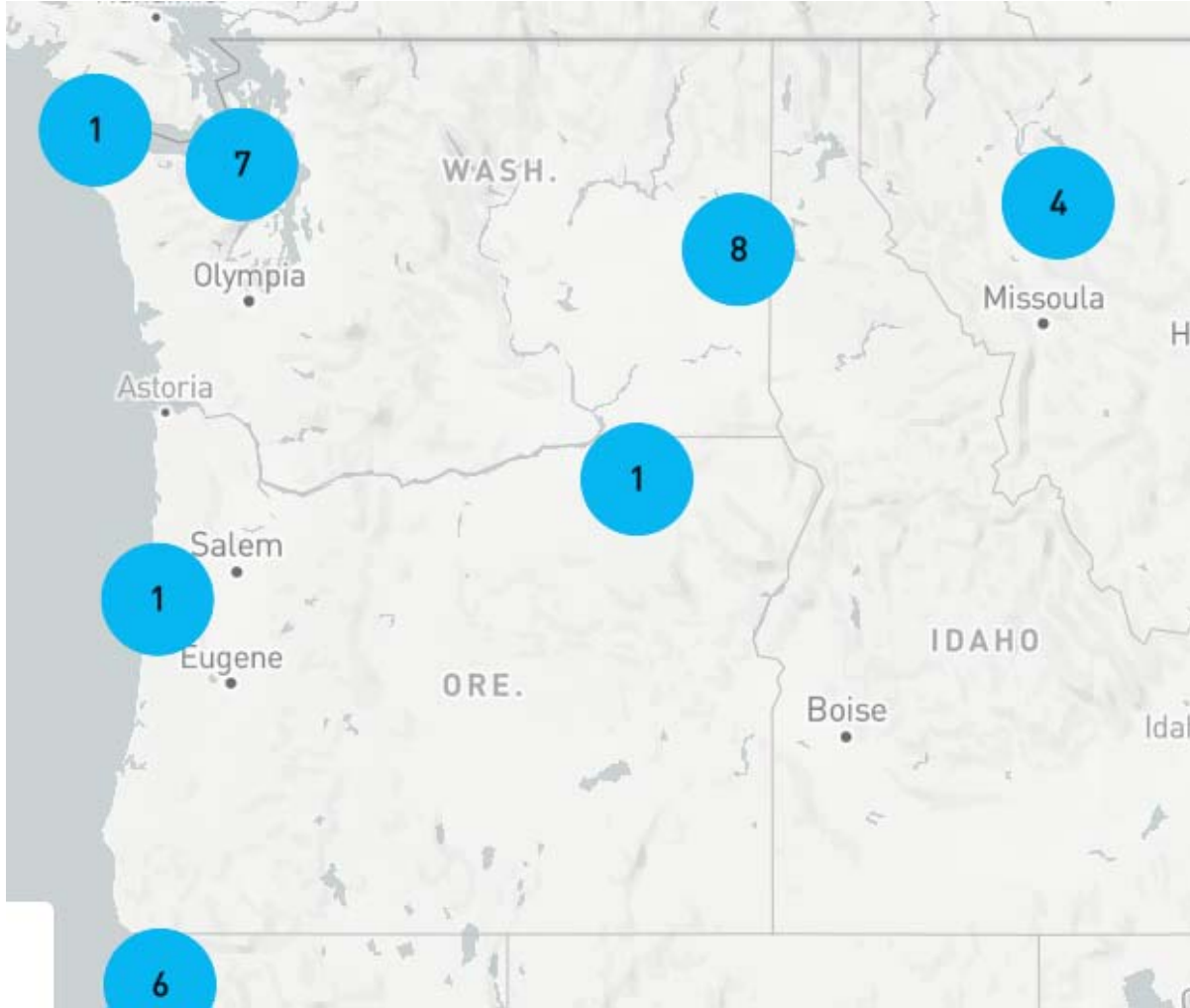
## Financial Assistance Investments (2010-2022)

Average DOE Investment of \$10.2M per year



# Investments by Technology (2010-2022)









# Success Stories



## Tribal Energy Successes – Solar



### Winnebago Tribe (NE)

- 23 kW solar system
- Completed February 2016
- Project amounts:
  - DOE: \$378,528
  - Awardee: \$94,633
  - Total: \$473,161



### 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

## 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

## 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



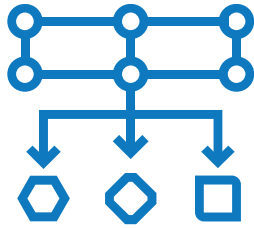
### Nuvista Kwethluk Energy Storage (AK)

- 500 kW battery storage system
- Planned completion September 2023
- Project amounts:
  - DOE: \$447,050
  - Awardee: \$447,050
  - Total: \$954,100



# Technical Assistance

## Technical Assistance Types



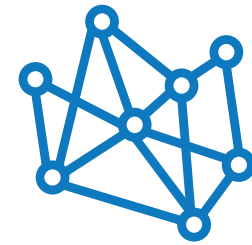
### Technical Analysis

- Addresses a specific project need and results in a tangible product or deliverable to move a project forward.
- Generally involves analysis and modeling, expert review, transmission and/or utility assessment, market access, and energy efficiency reviews.



### Financial Analysis

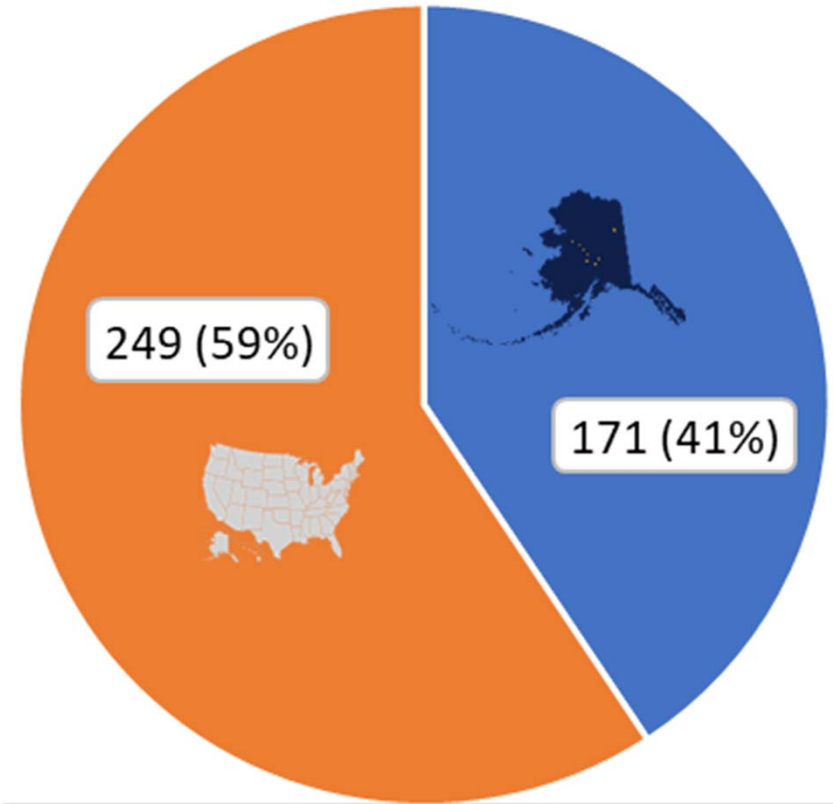
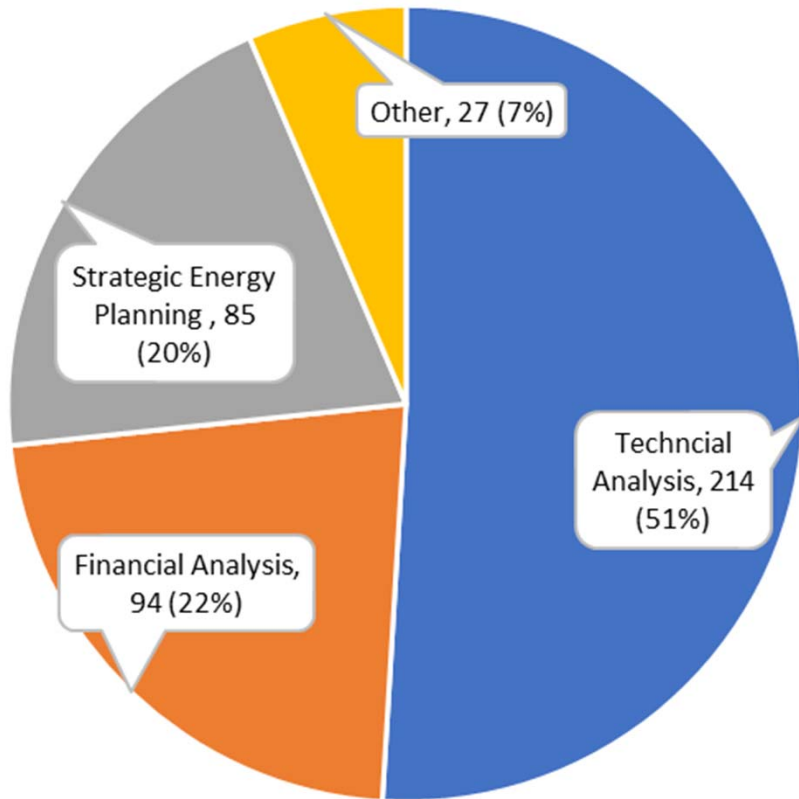
- Intended for decision makers in the early stages of energy development, including economic or market analysis.
- May include modeling for payback periods, net present value (NPV), and levelized cost of energy (LCOE).



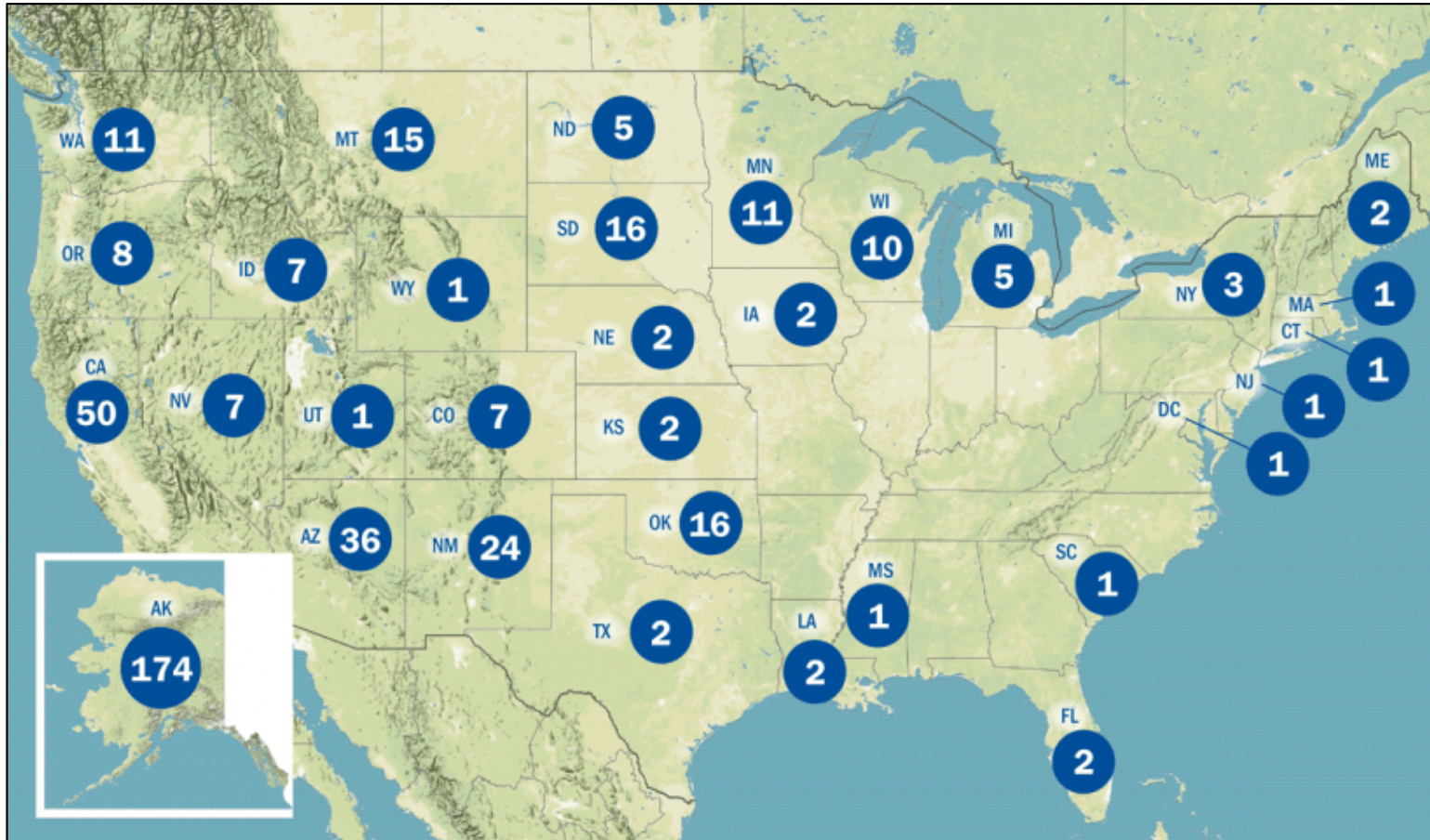
### Strategic Energy Planning

- Can consist of virtual or in-person workshops facilitated by tribal energy expert(s) to assist tribal leaders, elders, and staff develop an energy plan.
- May provide an initial resource assessment, energy options analyses, and development of a viable project roadmap.

## Completed Technical Assistance Requests (2010-2022)



## Completed Technical Assistance Requests (2010-2022)







# Education and Capacity Building

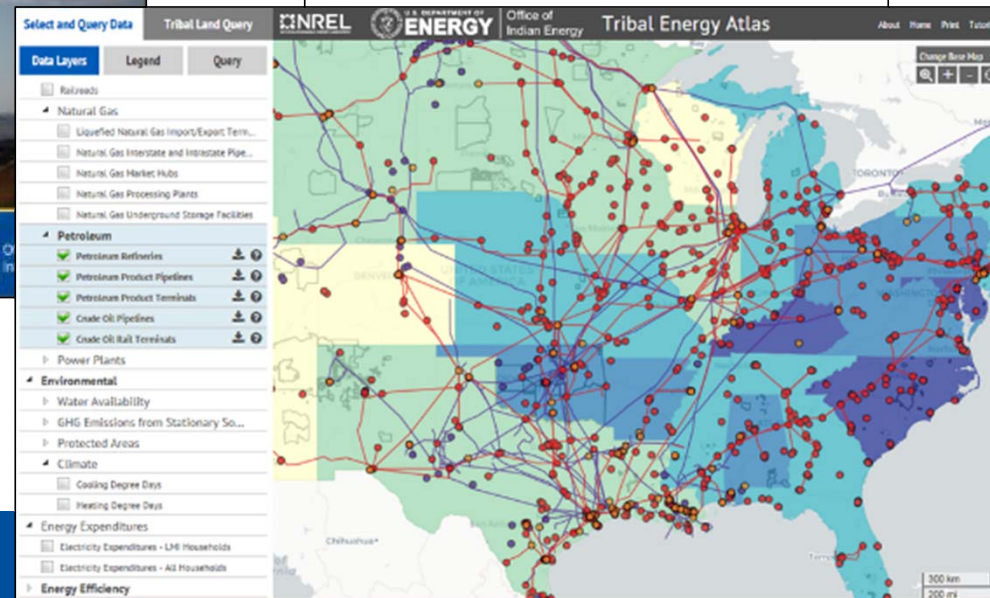
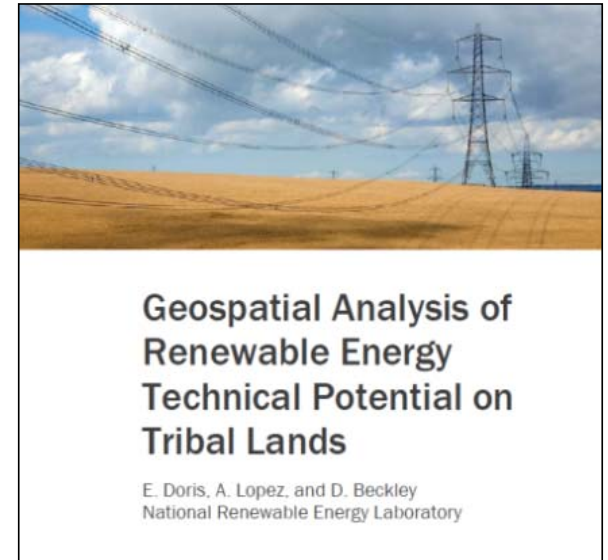
# Curriculum and Resources

## Information Resources

Energy Resource Library features publications, websites, videos, and more

## Tribal Energy Atlas

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



## Outreach and Communications

### Monthly Webinars

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

### Email Newsletters

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



# 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

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

#### Project Overview

##### Tribe/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

## 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**

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



Melissa Little Plume Weatherwax, of Blackfeet Community College, presents updates on their college sustainable energy project, November 14, 2022.

## Tribal Power Preference Listening Session

DOE's Office of Indian Energy and Federal Energy Management Program (FEMP) in partnership with General Services Administration (GSA) and Department of Defense (DOD), and in coordination with the White House Council on Native American Affairs (WHCNA), are hosting a virtual **Tribal Power Preference Listening Session:**

**May 18<sup>th</sup>, 2023, 2:30pm- 4:30pm (ET).**

Federal agencies have a 100 percent carbon pollution-free (CFE) electricity goal by 2030.

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What an amazing month it was! Looking back at some of our favorite photos from:

- ✅ The Reservation Economic Summit (#RES2023)
- ✅ Visit with leadership/staff of Pueblo of Picuris, Pueblo of Laguna, Pueblo De San Ildefonso, and Pueblo of Santa Clara in New Mexico
- ✅ Visit with the Moapa Band of Paiute Indians in Nevada... See more



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# Engage With Us to Learn More



## Office of Indian Energy

(240) 562-1352



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



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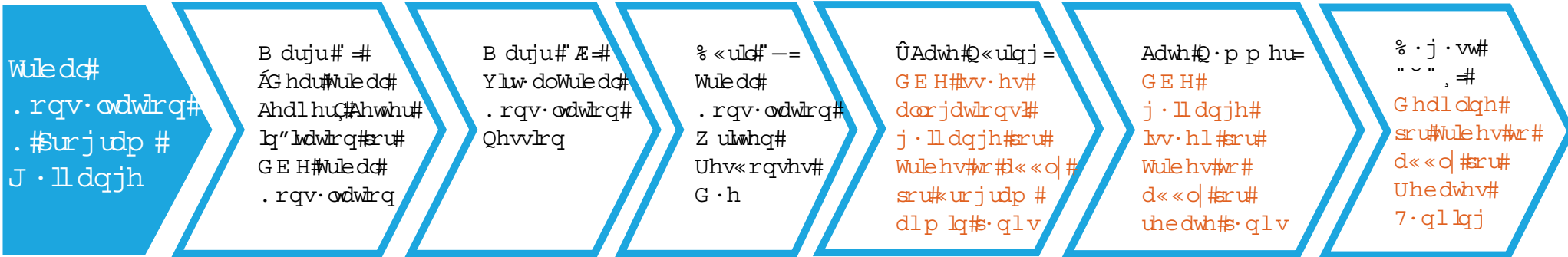
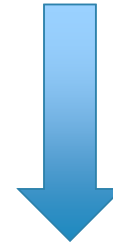
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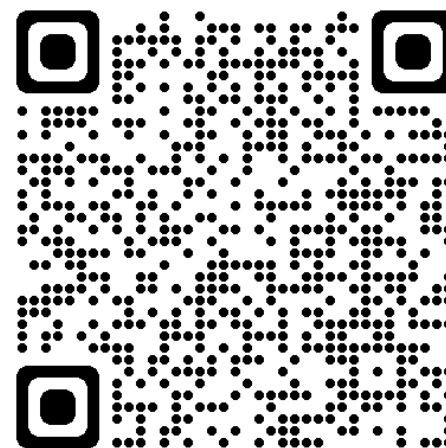
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# Non-competitive Grid Resilience Grants available to tribes

## DEADLINE EXTENDED!

- ~\$10M per year for the next 5 years available to tribes
- Per-tribe allocations range from **\$108k to \$4.3M** for the first two years.



Applications for Years 1 & 2 are due

**August 31<sup>st</sup>, 2023**

Apply at:

<https://www.energy.gov/gdo/gridresilience>

Use the QR code or URL to find your tribe's allocations:  
<https://netl.doe.gov/bilhub/grid-resilience/formula-grants>

Questions? email [GDOTribalAssistance@hq.doe.gov](mailto:GDOTribalAssistance@hq.doe.gov)

## 40101 (d) Grant Highlights

- Non-competitive grant for projects reducing the likelihood and consequences of electrical outages due to extreme weather, wildfire and natural disasters.
- Deadline is **Aug. 31, 2023** for first 2 years of funding.
- Apply by deadline to “secure” funding.
- Applications do not need to identify specific projects. Projects can be specified after funding is awarded.
- Sample application templates and resources available to assist.



# Resilience investments permitted under the Grid Resilience Formula Grant program

## Potential Investments include:

- utility pole management,
- hardening of power lines, facilities, substations, of other systems,
- undergrounding of electrical equipment,
- replacement of old overhead conductors and underground cables,
- relocation of power lines or the reconductoring of power lines with low-sag, advanced conductors,
- vegetation and fuel-load management,
- weatherization technologies and equipment,
- fire-resistant technologies and fire prevention systems,
- monitoring and control technologies,
- use or construction of distributed energy resources for enhancing system adaptive capacity during disruptive events, including microgrids, and battery-storage subcomponents,
- adaptive protection technologies, and
- advanced modeling technologies

## **Ineligible Investments**

- Construction of a new electric generating facility
- Large-scale battery storage facilities not being used to supply electricity where needed during disruptive events
- Cybersecurity measures

Questions? email [GDOTribalAssistance@hq.doe.gov](mailto:GDOTribalAssistance@hq.doe.gov)



VIDEO: What  
Does Energy  
Sovereignty  
Mean to You?  
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of Energy

