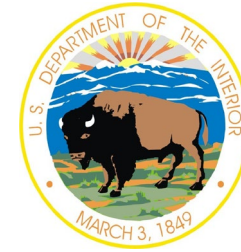


BIA Branch of Tribal Climate Resilience Overview



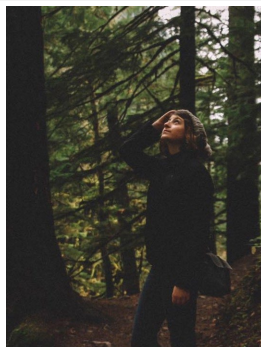
Program Coordinator & Climate Science Coordinator: Rachael Novak

Environmental Protection Specialist: Alexis Wagner

Climate Planning Specialist: Alyssa Samoy

Natural Resources Specialists: Corwin Carroll (*national support*) & Coral Avery (*Northwest Region*)

TCR Detailee and Southern Plains Region POC, Water Program Manager: Crystal Keys



Tribal Climate Resilience (TCR) Overview

1. Purpose
2. Awards Program
3. Training
4. Technical Support, Helpful Resources and Partnerships
5. Examples from BIA DEMD partner funding

TCR Purpose

To enable *climate preparedness* and *resilience* in all Indian Affairs programs and for all Federally-recognized Tribal Nations and Alaska Native villages:

Technical assistance

- Access to appropriate science
- Educational and training opportunities
- Regional network of liaisons
- Regional BIA support

Financial assistance

- Annual Awards Program
 - Includes dedicated support for ocean & coastal management efforts
- Bipartisan Infrastructure Law funding for relocation-related support

See “About Us” page: <https://www.bia.gov/tcr-about-us>



TCR Focus Area

Support Tribal climate priorities around climate impacts such as:

- *extreme events* (e.g., flooding, storm surge, increased frequency and intensity of wildfires, harmful algal bloom events, etc.), and
- *chronic and compounding events* (sea level rise, erosion, permafrost degradation, prolonged drought, ocean acidification, etc.)

TCR supports resilient adaptation **planning and preparedness** for these events, ocean and coastal management planning, and relocation, managed retreat and protect-in-place planning in coastal and riverine communities.

TCR now also supports some implementation as well.

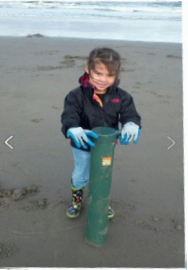
TCRP Focus Areas

TCRP supports resilient **adaptation planning** and **implementation** for climate risks

TCRP supports **management**, and **relocation**, **managed retreat** and **protect-in-place planning** in coastal and riverine communities

TCRP also supports **ocean and coastal management and planning**

- Includes Great Lakes tribes



Awards Program

Annual Awards Program Solicitation

Open to Federally recognized Tribes and Tribal organizations that serve Federally recognized Tribes as defined in 25 U.S.C. § 5304(I)

- Can be found on the Annual Awards Program site page and the ECO Opps application site
 - Annual Awards Program: <https://www.bia.gov/bia/ots/annual-awards-program>
 - ECO Opps: <https://sciencebase.usgs.gov/eco-opps/#/>
- Opened Apr. 11th 2022, closes **Jul. 6th 2022**
- *Must* submit proposals directly via ECO Opps
- Please limit length to **6 pages** for the proposal content requirement, not including supplemental materials
- Other entities may participate as sub-grantees (Tribes will be awarded and may partner with a sub-contractor/organization)



Annual Awards Program Solicitation

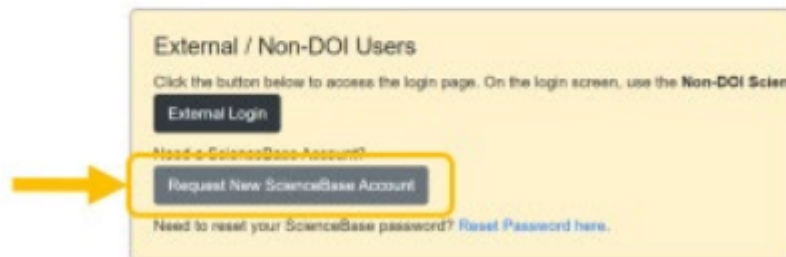
Can be found on the Annual Awards Program site page and the ECO Opps application site

- Annual Awards Program: <https://www.bia.gov/bia/ots/annual-awards-program>
- ECO Opps: <https://sciencebase.usgs.gov/eco-opps/#/>

APPENDIX

USGS ECO Opps Registration:

You must setup a new ScienceBase Account at <https://sciencebase.usgs.gov/eco-opps> in order to access the ECO Opps platform. Setting up a new ScienceBase Account instructions are provided below:





Categories of Funding

Categories of Funding

Climate Adaptation (Categories 1, 2, 3, 6, 10, and 13)

- Cat 1: Trainings and Workshops (\$150,000 max)
- Cat 2: Adaptation Planning (\$250,000 max)
- Cat 3: Travel Support for Adaptation Planning (\$15,000 max)
- Cat 6: Capacity Building for Scoping Efforts (\$65,000 max)
- Cat 10: Implementation of Climate Adaptation Strategies (\$2,000,000 max)
- Cat 13: International ITEK Virtual Exchange (\$10,000 max)

Ocean & Coastal Management Planning (Categories 4 and 5)

- Cat 4: Ocean & Coastal Management Planning (max \$150,000)
- Cat 5: Travel Support for Ocean & Coastal (\$15,000)



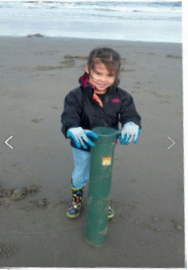
Categories of Funding (cont.)

Relocation, Managed Retreat, or Protect-in-Place (Categories 7, 11, and 12)

- Cat 7: Relocation, Managed Retreat, or Protect-in-Place Planning (\$300,000 max)
- Cat 11: Implementation of Relocation, Managed Retreat, or Protect-in-Place Actions (\$3,000,000 max)
- Cat 12: Relocation, Managed Retreat, or Protect-in-Place (RMP) Coordinator (max: \$100,000 per year for up to 3 years)

Internships & Youth Engagement (Categories 8-9)

- Cat 8: Internships (\$50,000 max)
- Cat 9: Youth Engagement (\$50,000 max)



Notable Items

Increases to Categories of Funding

- Category 2: Maximum increased from \$150,000 to \$250,000
- Category 7: Maximum increased from \$150,000 to \$300,000

New Platform for Applying

- Applicants must create an account on the Eco-Opps Science Base, typically taking 24 hours to process. **Create the account at least 24 hours prior to applying.**
- Applicants must apply through Eco-Opps Science Base <https://sciencebase.usgs.gov/eco-opps/#/> (**do not email it to resilience.funding@bia.gov** but please feel free to continue to submit questions to this email).

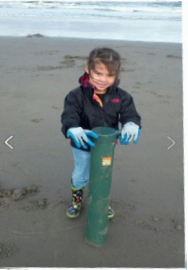


TCR Awards- Indian Country & AK Native Villages

- Since 2011, over 700 awards, worth over \$74 million
- Before 2022, annual awards budget ~\$8-15 million (Congress appropriated)
- In 2022, significant increases from Infrastructure Investment and Jobs Act and 2022 Annual Appropriations, now specifically allowing for implementation

Year	Number of Awards	Amount Awarded
2019	119	\$8.7M
2020	159	\$14.4M
2021	135	\$13.85M
2022	TBD	~\$46M (TBD)

See summaries of previous years' awards here:
<https://www.bia.gov/bia/ots/annual-awards-program>



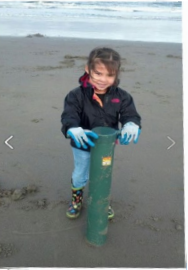
Training

Trainings and Workshops

Training Partner: Northern Arizona University's Institute for Tribal Environmental Professionals (ITEP) Climate Change Program

- Tribal Climate Change 101 Trainings
- Advanced Climate Change 201 Cohort Groups
- Biennial Virtual National Tribal and Indigenous Climate Conference 2020-1,700 attendees, 230 tribes, in 2022 Aug. 29-Sept. 1, 2022, St. Paul, MN
- <https://sites.google.com/view/nticc-itep/home>
- “Today’s Stewards: Tomorrow’s Ancestors”





Technical Support and Reports

Regional Support–DOI Climate Adaptation Science Centers

“Partnership-driven program that teams scientific researchers with natural and cultural resource managers and local communities to help fish, wildlife, waters, and lands across the country adapt to changing conditions.”

<https://www.usgs.gov/ecosystems/climate-adaptation-science-centers>



Projects by Region



Wildlife and Plants



Drought, Fire and Extreme Weather



Water, Coasts and Ice



Landscapes



Native Communities



Science Tools for Managers Webinars



Regional Support– Tribal Climate Resilience Liaisons

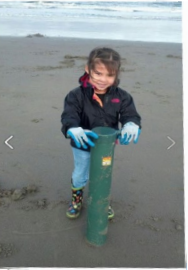
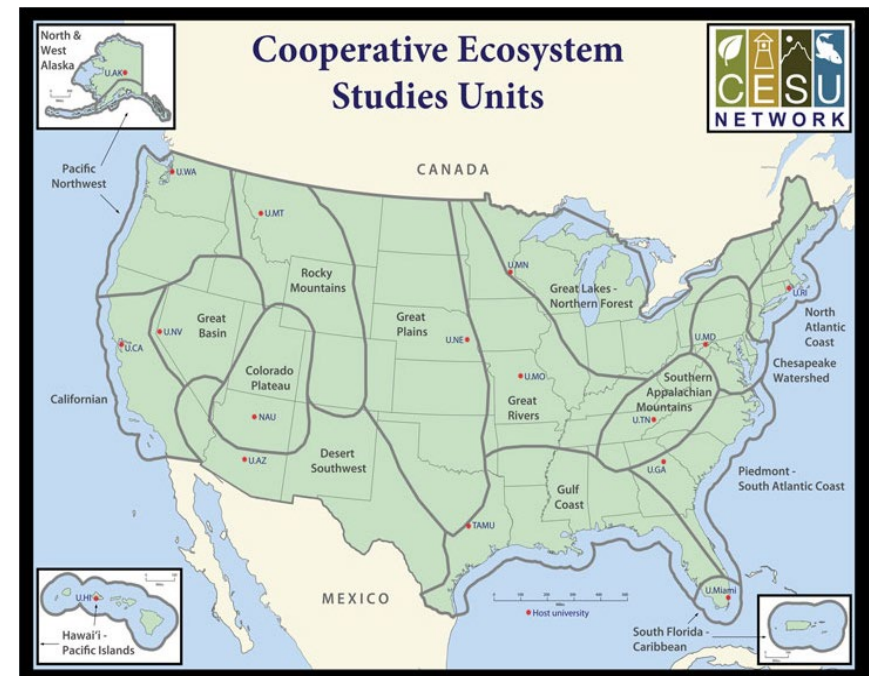
Tribal Climate Resilience Liaisons are located at Regional DOI Climate Adaptation Science Centers (CASCs)



Regional Partners- Cooperative Ecosystems Studies Units (CESU)

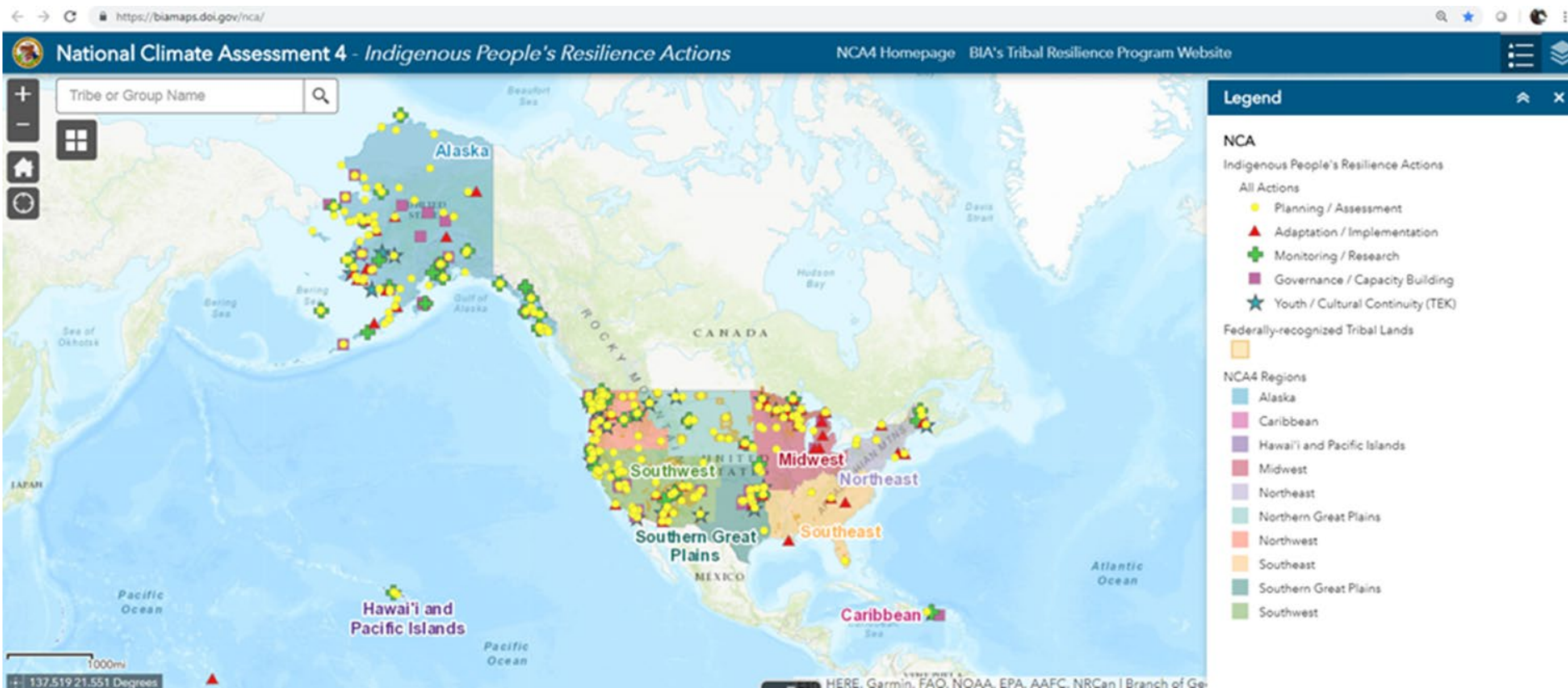
Want to partner with expertise at a university?

- BIA partnership in the CESU network allows Tribes to access expertise at a low 17.5% indirect cost rate. This pans out to more funds to support project.
- Check if your partner is at a participating institution here: <http://www.cesu.psu.edu/>
- Write it into your proposal! (Summary, Proposal description and Budget.)



Don't know where to start? Examples

- *Indigenous Peoples Resilience Actions Map* (>1100 entries!)
- Search the online version of the map by activity type, region, and sector to find more information and links to each project: <https://biamaps.doi.gov/nca/>



Don't know where to start?

Tribal Climate Change Guide

The Tribal Climate Change Guide is part of the Pacific Northwest Tribal Climate Change Project. For more information, visit: <http://tribalclimate.uoregon.edu/>. If you would like to add to or amend this guide, please complete this [google form](#). If you have additions or suggestions for this website, please email kathy@uoregon.edu

- Funding
- Tribal Adaptation Plans
- Tribal Climate Resources
- Climate Programs
- Scientists
- Publications
- Health
- Climate Education
- Disaster Resources
- Jobs
- Events

Funding

The Tribal Climate Change Funding Guide is intended to provide up-to-date information on grant opportunities. The guide is updated regularly, so please check back often. If you have questions or updates for this guide, email: kathy@uoregon.edu with the subject line "12/31/2020" as the grant deadline. This ensures that those grants will appear immediately after the deadline.

Search by Keyword

Geography

- Any -

Apply

Reset

Title	Organization	Grant Deadline	Description
National Coastal Resilience Fund	National Fish and Wildlife Foundation, NOAA	04/07/2021	National Coastal Resilience Fund 2021 Request for Proposals (RFP). NFWF is pleased to announce investments in projects that will help protect coastal communities from sea level rise and enable them to recover more quickly and enhance their resilience. https://www.nfwf.org/programs/national-coastal-resilience

Bureau of Indian Affairs Tribal Resilience Program 2020 Funding Awards Summary

Total Number of Awards: 159 **Total Amount Funded:** \$14,447,335

Category 1: Trainings and Workshops
To design and host regional or national tribal training(s) or workshop(s) that will assist tribal leaders, program coordinators, planners, and managers in developing the skills necessary to address extreme events and harmful environmental trends by developing tribal adaptation plans, or management options, through in-person and webinar trainings and workshops.

Number of Awards: 13 **Amount Funded:** \$1,851,937

Bureau of Indian Affairs Tribal Resilience Program 2019 Funding Awards Summary

Total Number of Awards: 119 **Total Amount Funded:** \$8,731,454

Category 1: Trainings and Workshops
To Design and Host Opportunities to Build Skills and Coordinate Adaptation Planning Processes

Number of Awards: 13 **Amount Funded:** \$1,803,655

<https://tribalclimateguide.uoregon.edu/>

<https://www.bia.gov/bia/ots/annual-awards-program>

National Climate Assessment

FOURTH NATIONAL CLIMATE ASSESSMENT

CHAPTER 15: TRIBES AND INDIGENOUS PEOPLES



Regional Chapters all include Indigenous-focused content and Key Messages

<https://nca2018.globalchange.gov/chapter/15/>

Regional Fact Sheet available in Tribal Resilience Resource Guide

SOUTHERN PLAINS REGION (SPL RO) FACT SHEET

Description of Region: The Southern Plains Region includes portions of Western Oklahoma, in addition to TX and KS, so it works closely on climate issues with the Eastern Oklahoma Region. Both BIA Regions also coordinate with the South Central Climate Center, which provides on-site tribal liaisons for Chickasaw and Choctaw Nations, and support tribes through the region with training, assessment services, data, and planning support.

Federal Links: Select the Agency Acronym for the full Agency Fact Sheet and the link to its right for a more specific regional contact or homepage. Choose *Affiliated Tribal Fact Sheets* to access a Fact Sheet for each Tribe in this Region.

BIA: [Southern Plains - Affiliated Tribal Fact Sheets](#)

BOEM: [Gulf of Mexico OCS Region](#)

EPA: [R6](#)

USDA CLIMATE HUB: [Southern Plains](#)

CSC: [South Central](#)

DOT/FWHA: [Southern Plains](#)

BLM: [KS OK TX](#)

FEMA: [R6](#)

USDA NRCS: [Locator](#), **USDA USFS:** [Southern](#)

LCC(s): [Gulf Coastal Plains and Ozarks](#)

DOE: [KS](#) [OK](#) [TX](#)

FWS: [Southwest](#)

HUD: [Southern Plains](#)

NOAA: [Region](#), **RISA:** [SCIPP](#)

Services

- [Tribal Climate Resilience Program \(BIA\)](#)
- [Tribal Programs and Services \(USDA\)](#)
- [Tribal Government Support \(EPA\)](#)
- [NIDIS Tribal Engagement \(Drought Portal\)](#)

Products

- [BIA S. Plains Region Climate Map](#)
- [BIA S. Plains Region Fact Sheet](#)
- [EPA: Climate Impacts in the Great Plains](#)
- [GIS for Tribal Resilience - Southern Plains UC17](#)
- [SPL CC Vulnerability, Adaptation & Mitigation Strategies](#)
- [SPL Regional Assessments](#)
- [Tribal Nations Theme in Climate Data Initiative](#)

Funding

- [Tribal Funding by Strategy](#)
- [Other Funding Opportunities \(TCCG\) - Choose Geography: SE, SW and Any](#)

Tools

- [CRT Tool: Guidelines for Considering Traditional Knowledges in Climate Change Initiatives](#)
- [CRT Tool: Tribal Climate Change Guide \(TCCG\)](#)

Training

- [Tribal Climate Change Adaptation Planning](#)

Examples

- [Nationwide Tribal Climate Case Studies](#)

Regional Groups

- [NNCAP SW Tribal CC Network](#)

Tribal Fact Sheet available in Tribal Resilience Resource Guide

Names (Federal Register): *Navajo Nation, Arizona, New Mexico & Utah*

Federal Links: Select the Agency Acronym (blue link) for an Agency Fact Sheet and the orange link to its right for regional contacts or homepage.
For more information, hover over a link for agency or program details before making a selection.

Tribal: [Official Website](#) (or group site)

CSC: [Southwest](#)

USDA CLIMATE HUB: [Southwest](#)

EPA: [R9](#) FEMA: [R9](#)

BIA Region: [Navajo Regional Fact Sheet](#)

Navajo Regional Office

LCC: [Southern Rockies](#)

USDA NRCS: [Locator](#) USDA USFS: [Southwestern](#)

DOT/FWHA: [Mountain West](#)

DOE: [AZ](#)

FWS: [Southwest](#)

NOAA: [Region](#) RISA: [CLIMAS](#)

HUD: [Southwest](#)

▶ Awards

- [FY11 Climate Adaptation Planning](#)
- [FY15 Management Internships](#)
- [FY15 Travel \(Climate\)](#)
- [FY15 Youth Engagement](#)
- [FY16 Climate Adaptation Planning](#)
- [FY16 Travel \(Climate\)](#)
- [BIA TCRP FY11-16 Awards Map](#)
- [More Climate Funding Options](#)

▶ Groups

- [Dine College](#)
- [Native American Fish and Wildlife Association \(NAFWS\)](#)
- [Navajo Technical College](#)

▶ Documents

- [Connectivity of Habitats on Navajo Nation Lands](#)
- [Considerations for Climate Change and Variability Adaptation on the Navajo Nation](#)
- [NN CC Vulnerability Assessment for Priority Wildlife Species](#)

▶ Tools

- [Tribal Drought Information for Monitoring, Assessment, and Planning \(DRI MAP\)](#)
- [CRT Tool: Guidelines for Considering Traditional Knowledges in Climate Change Initiatives](#)
- [CRT Tool: Tribal Climate Change Guide](#)
- [CRT Tool: Tribal Climate Change Adaptation Planning Toolkit](#)
- [Other Tribal Nations Examples](#)

▶ Examples

- [CRT Case Study: Navajo Nation: Hotter, Drier Climate Puts Sand Dunes on the Move](#)
- [ITEP TCC Profile: Dune Study Offers Clues to Climate Change](#)
- [Other Tribal Nations Examples](#)

▶ Data & Maps

- [Conservation Planning Atlas](#)
- [EPA Climate Impacts by State for: AZ](#)
- [HUC8: 15020013 - Polacca Wash Resource Links](#)
- [NN Zoo: Facts on Desert Bighorn Sheep and Other Species](#)
- [NOAA NCEI AZ State Climate Summary](#)
- [Toolkit Climate Explorer 2.0: Projected Temperature & Precip - Apache County](#)
- [Toolkit Climate Explorer 2.0: Projected Temperature & Precip - Coconino County](#)
- [Tribal Nations Geospatial Data](#)
- [Tribal Nations Map Gallery](#)

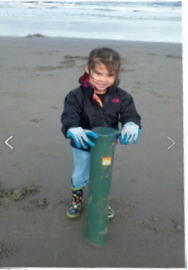


**Examples of BIA Resources more
focused on energy/renewable energy:
TCR and Division of Energy and
Mineral Development (DEMD)**

TCR Examples

Big Sandy Rancheria Band of Western Mono Indians, 2021 Award

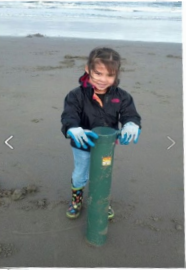
- *Advancing Climate Change Adaptation for Big Sandy Rancheria through Wood Energy Development and Workforce Training*
- Multiple co-benefits: energy assessment of biomass (feasibility) and preliminary design of biomass combined heat and power system as climate adaptation strategy, training/employment opportunities, reduction in wildfire risk, and increase energy resilience



TCR Examples

Northwest Indian College, 2021 Award

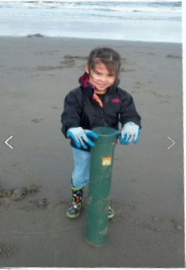
- *Summer Solar K-12 Youth Engagement Activities*
- Youth focused hand-on STEM unit linking engineering of solar energy to humanitarian service through building and sharing portable solar electric systems called Solar Suitcases.
- Connects students at NWIC to K-12 youth and also provided a Solar Suitcase to youth home or community center where needed.



TCR Examples

Nez Perce Tribe, 2020 Award

- *Seeds of Sovereignty- Planning for Food Security and Cultural Survival in a Changing Landscape*
- Project assisting in food and energy sovereignty for the Tribe.
- Community garden of traditional foods, food map, food trail design that weaves gardens, native plant areas, future solar projects and sustainability into a cohesive whole.



BIA DEMD Programs and Services

Mission: Provide the best possible technical and economic advice and services in assisting Indian mineral owners to achieve economic self-sufficiency by creating sustainable economies through the environmentally sound development of their energy and mineral resources.

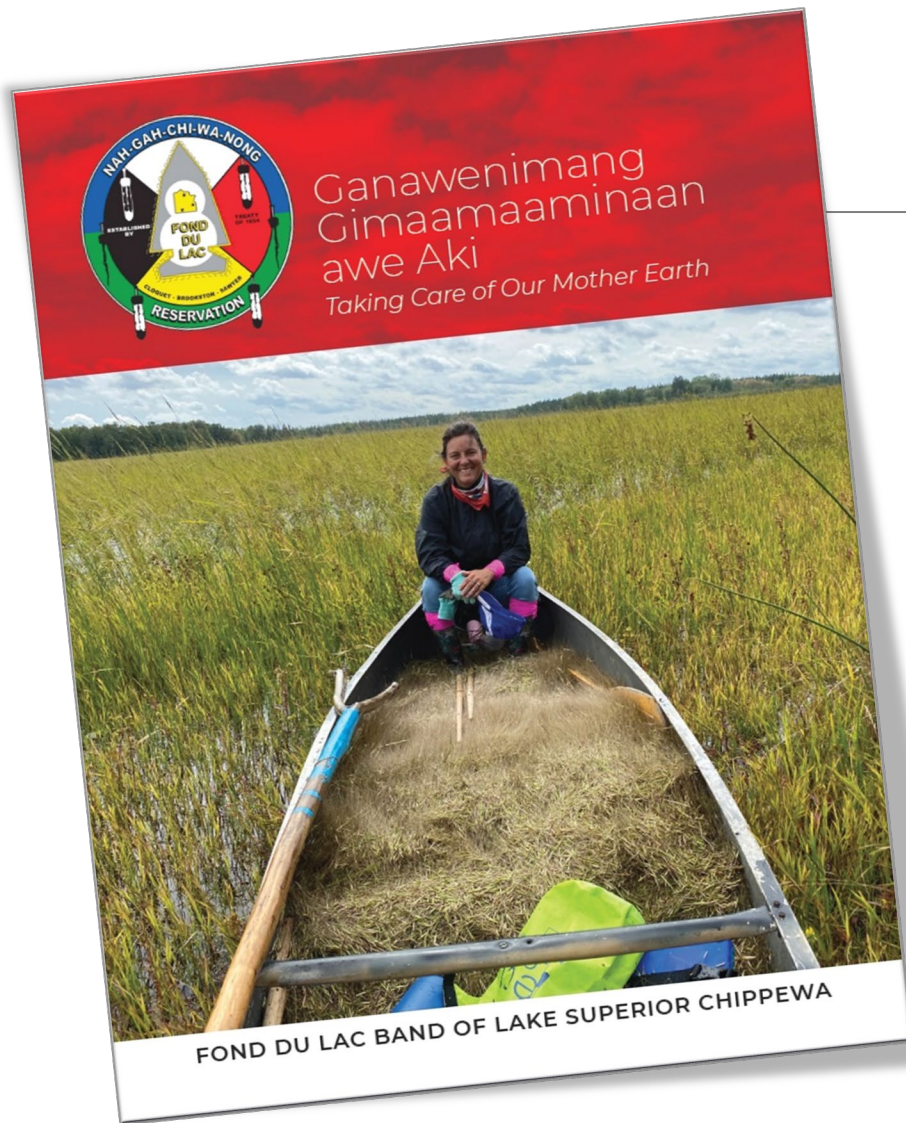
Technical Assistance and Business Advising

Grant Programs

- Energy and Mineral Development Program
- Tribal Energy Development Capacity Program



Implementing the Fond du Lac Band's Energy Vision



2007 Pledge to Kyoto Protocol

Energy Feasibility Studies with DEMD

- Wind
- Pellet Manufacturing
- Waste to Energy
- Natural gas
- Solar
- Biomass heating
- Microgrids
- Tribal Utility

Includes both direct and indirect influences on FDL accomplishments.

Fond du Lac Band

Accomplishments – some through DEMD grants and TA

- Kyoto Protocol pledge to reduce emissions
- Vision for energy efficiency and development, within cultural traditions
- 50% reduction in fossil fuels
- 80% reduction in carbon emissions
- 70% broadband deployment
- Improvements to community health and economy
- Midwest Regional leadership



Other Success Stories – DEMD funds can lead to other funding opportunities

Metlakatla Indian Community

- 2022 DOE Award- Hydro Turbine Replacement and Battery System; increased energy resilience and increase turbine production by 20%.
- 2021 DOE Award- Metlakatla to Ketchikan Intertie; reliable power generation to the community saving \$500K annually.
- 2015 DEMD EMDP- Intertie Feasibility Study
- 2014 DEMD EMDP- Purple Lake Hydro Feasibility Study
- DEMD TA- including planning efforts resulting in the Hydro and Intertie Projects.

Pueblo of Laguna

- 2022 DOE Award- Installation of 53kW of Solar PV on Community Buildings; savings of \$174K in energy costs.
- 2019 DEMD EMDP- Building Solar Assessment and Design Study.

Pala Band of Mission Indians

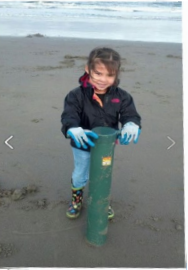
- 2021 DOE Award- 1MW of solar PV Systems and 10kW Battery Storage; Saving the Tribe \$6.4 million over 25 years,
- 2018 DEMD EMDP- Solar Feasibility Study; determining cost savings.

DEMD CONTACT

Jennifer Reimann
Acting Branch Chief, Renewable and
Distributed Generation
(720) 407-0669
jennifer.reimann@bia.gov

www.bia.gov/DEMD





Other Helpful Resources and Closing

Other Helpful Resources

- BIA's Tribal Resilience Program Home Page: <https://www.bia.gov/bia/ots/tribal-resilience-program>
- Tribal Resilience Resource Guide: <https://biamaps.doi.gov/tribalresilience/resourceguide/>
- NAU's Institute for Tribal Environmental Professional's <http://www7.nau.edu/itep/main/tcc/Resources/newsletters>
- UO's Tribal Climate Change Guide: <http://tribalclimateguide.uoregon.edu/>
- Cooperative Ecosystem Studies Units: <http://www.cesu.psu.edu/>

Thank you/Ahe'hee!

For more programmatic questions, please email rachael.novak@bia.gov
or alyssa.samoy@bia.gov;
For questions on the application process, please contact jo.metcalfe@bia.gov;

The presentation will be recorded and archived for those unable to attend the live session. A link to this will be available at the ITEP website here:
http://www7.nau.edu/itep/main/tcc/Training/Webinars_Schedule.

