

DOE OFFICE OF INDIAN ENERGY

DOE Indian Energy Program Overview

Lizana Pierce, Senior Engineer and Deployment Supervisor



Deployment Supervisor – Lizana Pierce



Lizana Pierce

Senior Engineer and Deployment Supervisor, Office of Indian Energy Policy and Programs, Colorado

Lizana Pierce is duty stationed in Colorado and serves as the principal engineering expert for the Director and Deputy Director on deployment programs. Mrs. Pierce is responsible for implementing the Office's Deployment Programs: Technical Assistance, Financial Assistance; and Education and Capacity Building.



Lizana has more than 25 years of experience in energy technologies, project development, and management, and has dedicated 20 of those years to assisting Indian tribes in developing their energy resources and building their human capacity to realize their energy visions.

Ms. Pierce holds a Bachelor of Science degree in mechanical engineering from Colorado State University, and she pursued a Master's in Business Administration through the University of Northern Colorado.

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 top right: **Seneca Nation's** (NY) 1.5 MW wind turbine, **Fort Yukon's** (AK) combined heat and powerhouse, **Coeur d'Alene Tribe's** (ID) Benewah Market energy efficiency project, **Sokaogon Chippewa Community** (WI) Housing Project, and **Chippewa Cree Tribe's** (MT) Residential Solar.

Meet the Team

Office of Indian Energy

Comprised of 14 Federal employees and 10 contractors

The Director, Deputy Director, Senior Advisor, Budget Officer, Communications Specialist, and Management Analyst (6 FTE's) and two (2) contractors located in Washington, DC.



The Deployment Supervisor, Deployment Specialist, a Project Officer and two Engineers (5 FTE's) and eight (8) contractors, duty-stationed in Golden, Colorado. Financial assistance support received through the DOE Golden Field Office.



AK Senior Policy Advisor and two (2) Engineers duty-stationed in Alaska.

Indian Energy Deployment Team (Federal)



**Lizana Pierce, Senior Engineer
and Deployment Supervisor**



Tweedie Doe, Lead Project Officer



**Michael Stevenson, Lead General
Engineer**



**Tommy Jones, Deployment
Specialist**



Josh Gregory, General Engineer



Dan Smith, General Engineer

Meet the Deployment Team (Contractors)



Jen Luna, Lead



Jami Alley



Kris Venema



James Jensen



Jessica Bekker



Mike Vehar



Nathan Ballenger



Brandon Kiger

Deployment Program



Financial Assistance

We facilitate tribal energy project development through financial assistance (competitively awarded grants).



Technical Assistance

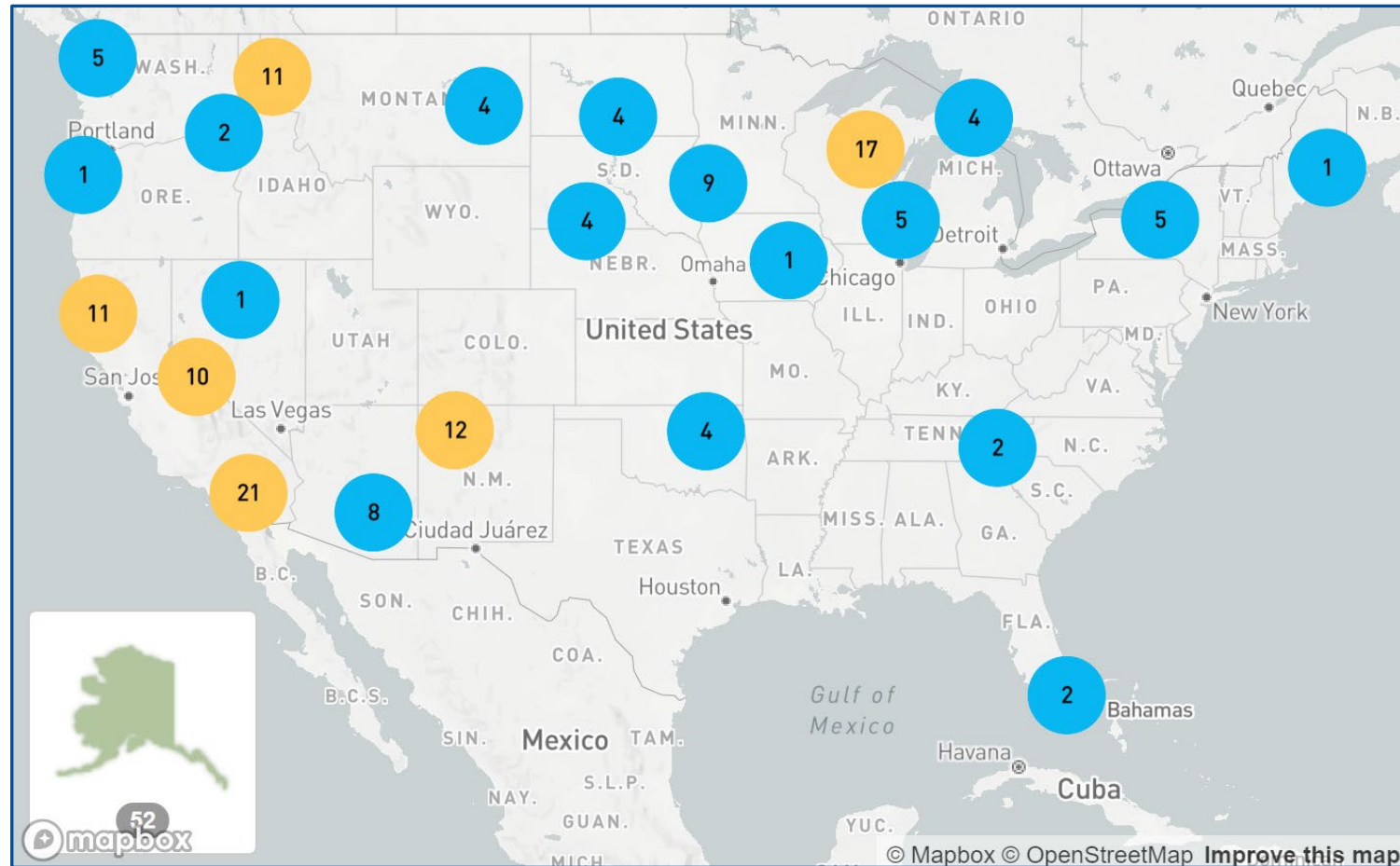
We provide federally recognized Indian tribes, including Alaska Native villages, regional and village corporations, tribal energy resource development organizations, and other tribal groups and communities, with technical assistance to advance tribal energy and infrastructure projects at no charge.



Education and Capacity Building

Thorough regional workshops, webinars, and college student internships, we support tribal efforts to build internal capacity to develop energy projects and navigate energy markets.

Invested over **\$114 million** in more than **200 tribal energy projects** valued at nearly **\$200 million** (2010-2021)



Financial Assistance (2010-2021)

Tangible Results

- **More than 43 MW of New Generation Installed**
- **More than 10 MWh of Battery Storage Installed**
- **Over \$13.7 Million Saved Every Year**
- **Over \$295 Million Saved Over System Lifetimes**
- **\$3.46 Saved for Every DOE Dollar Invested**
- **Over 8,600 Tribal Buildings Affected**



Clockwise from top right: **Huslia Tribe Council (AK)** installed a community-scale biomass project to heat their community's buildings (2018); **Soboba Band of Luiseño Indians (CA)** installed a 1 MW solar; **Rosebud Sioux (SD)** solar system on low-income home (2016); **Fort Mojave Indian Tribe and Aha Macav Power Services** installed a 2.3 MW solar system; **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.

Annual Program Review

Unique Tribal Forum for Sharing and Learning

- Forum for Tribes to meet and learn from other each other and to share their successes and challenges
- Networking & learning opportunity
- Hear about 40 to 50 Tribal energy from across the country
- ~200 participants



DoubleTree by Hilton Hotel Denver

Typically held in November

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

Tribal Energy Successes



Clockwise from top right: Ute Mountain Ute Tribe's (CO) 1 MW solar system; San Xavier (AZ) solar installation at their Education building (2021); Igiugig Village's (AK) 35 kW RivGen system and energy storage microgrid; and Winnebago Tribe's (NE) solar installation.

Tribal Energy Successes



Clockwise from top right: Fort Mojave Tribe and Aha Macav Power Services (AZ) 2.3 MW solar installation (2020); Blackfeet /Community College (MT) 53.2 kW solar installation (2021); Nuvista Kwethluk (AK) 670 kWh Energy Storage Project (2021)

Funding Opportunities

Department of Energy

DOE Announces \$35 Million To Deploy Clean Energy on Tribal Lands and Power Unelectrified Tribal Buildings

NOVEMBER 1, 2022


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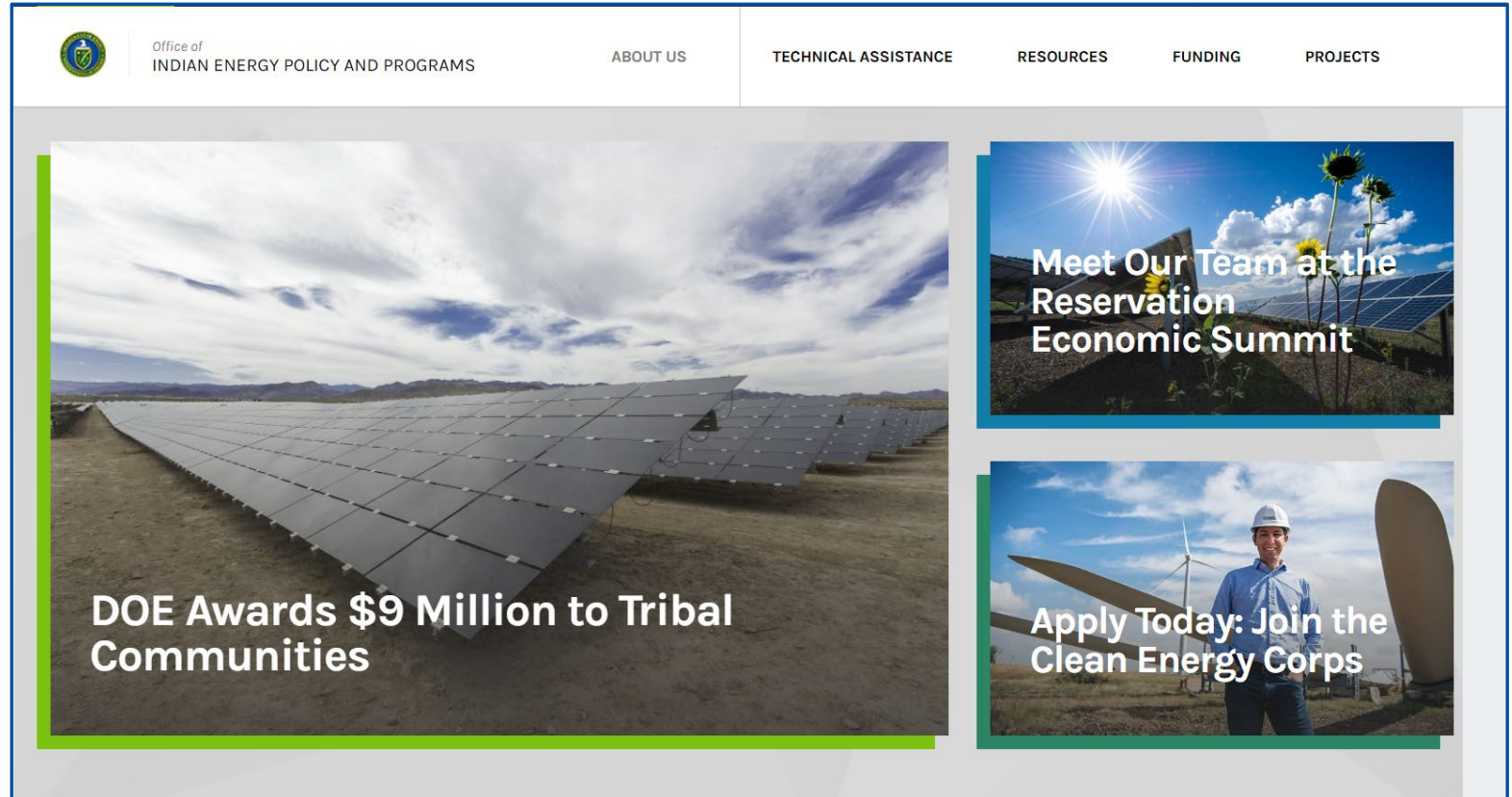
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Assisting Tribes Achieve Their Energy Vision



Clockwise from top right: NANA Regional Corp. (AK) working with the villages of Buckland, Deering, and Kotzebue to install solar (2018), in the lower right, Fort Yukon's (AK) combined heat and powerhouse as compared to their old powerhouse above. In the upper left, Alaska Village Electric Cooperative, Inc. (AVEC) and Bethel Native Corporation's (BNC)'s "Bethel Wind Energy Construction Project" to benefit the communities of Bethel and Oscarville, AK (September 2018)



Clockwise from the right: Hughes Village (AK) 150 kW solar system (2018); Menominee Tribal Enterprise (WI) install a biomass combined heat and power system; Tolowa Dee-ni' Nations (OR) Fish Hatchery 114 kW solar project (2020); Seneca Nation's (NY) 1.5 MW turbine (2017).



Thank
You

