

DOE OFFICE OF INDIAN ENERGY

2017 Budget Rollout Presentation


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U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

A row of white wind turbines stands on a grassy hillside. The turbines are arranged in a line, receding into the distance. The sky is a vibrant blue with scattered white clouds. The foreground shows some dry grass and a dirt path.

MISSION: To maximize the development and deployment of energy solutions for the benefit of American Indian Tribes and Alaska Natives.

VISION: To be the premier federal office for providing tribal communities and Alaska Native Villages with the knowledge, skills, and resources needed to implement successful strategic energy solutions.

Reality of 567 Federally Recognized Tribes

The gaps between Indian Country and the rest of the United States are staggering.



American Indian and Alaska Native households in large tribal areas are more than **3 times** as likely to live in **overcrowded housing** and more than **11 times** as likely to live in housing without adequate plumbing



Poverty and unemployment rates among American Indian and Alaska Natives living in tribal areas in 2006–2010 were at least **twice as high** as those among non-Indians nationally



Ready access to electricity is still considered a luxury in many tribal communities ... as many as **15,000 Navajo homes** — about **30%** — still lack electricity



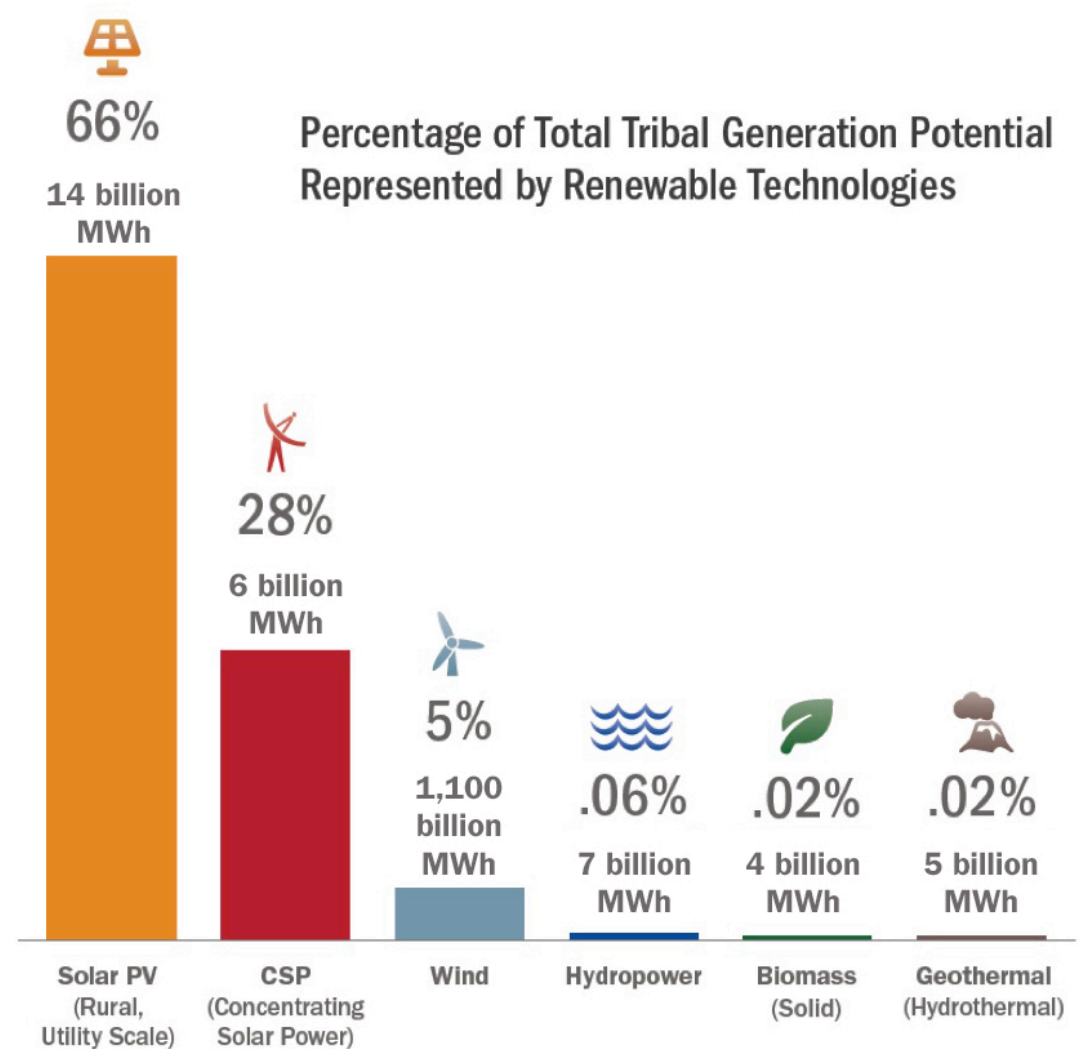
More than **175 remote Alaska village populations** rely almost exclusively on diesel fuel for electricity generation and heating oil for heat. In some rural Alaska communities, electricity costs exceed **\$1.00/kilowatt-hour (kWh)**—more than **8 times** the national average of **\$0.12/kWh**



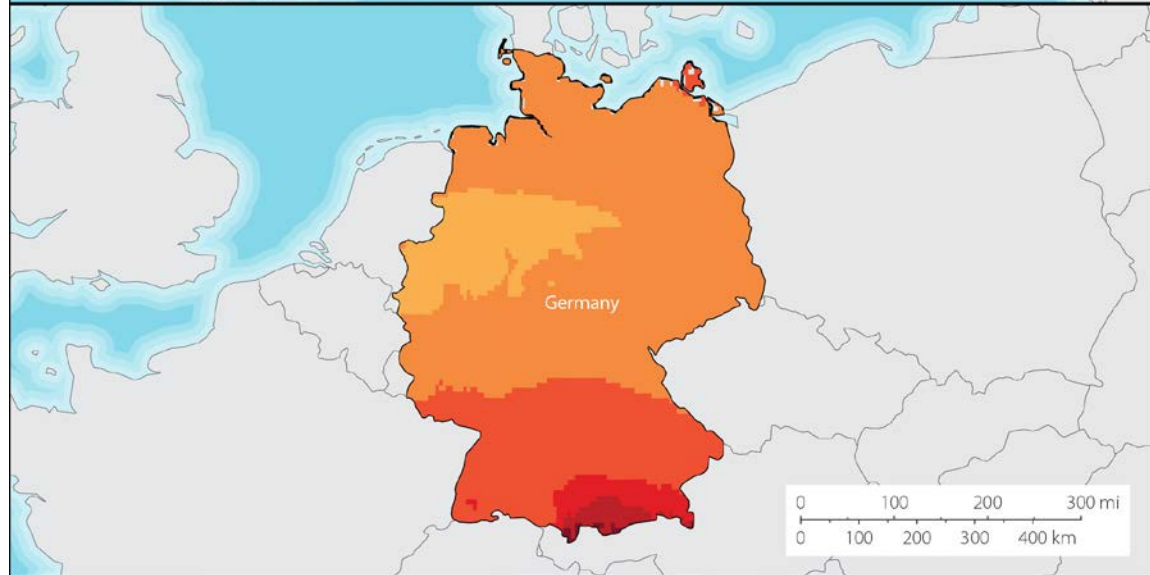
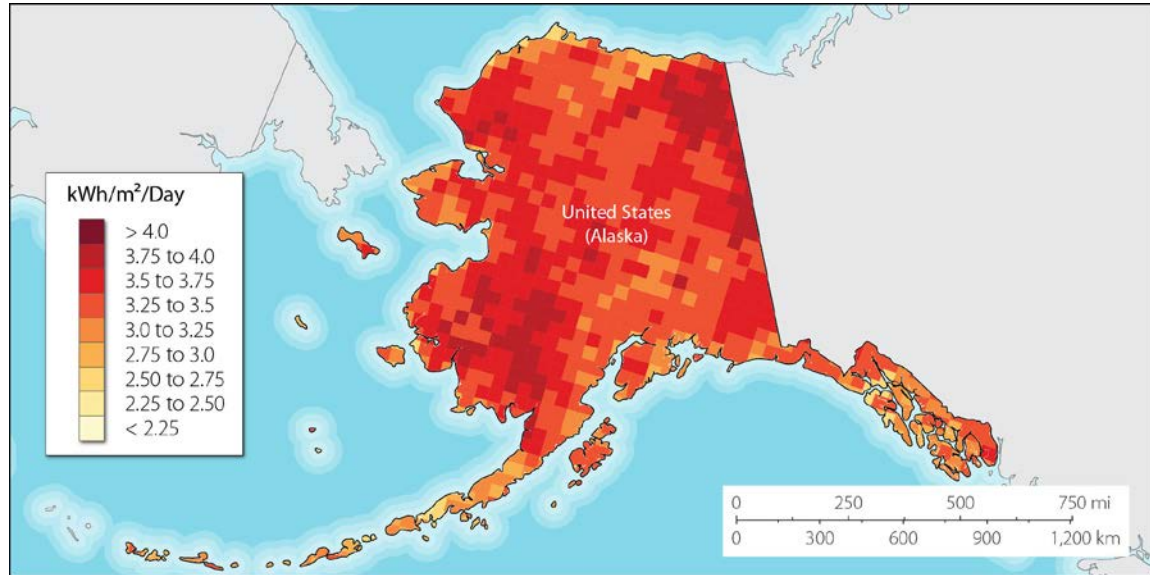
Resource Potential: 48 Contiguous States

While American Indian land comprises ~2% of the total U.S. land base, it represents an estimated 5% of the total U.S. renewable energy generation potential.

The total generation potential for renewable energy generation on tribal lands is **21 million megawatt hours (MWh)**.

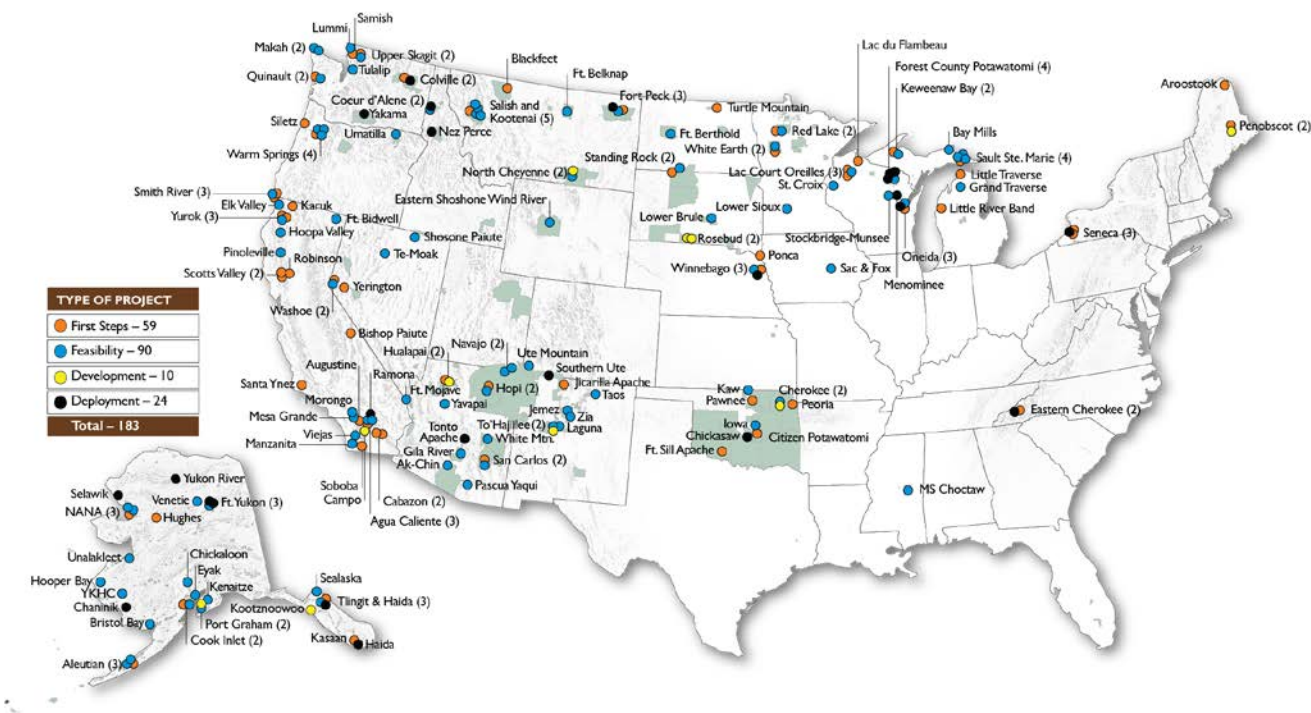


Resource Potential: Alaska



Alaska's solar resource is comparable to that of Germany, which leads the world in PV installations with more than **38,500 megawatts (MW)** of solar installed as of October 2015.

DOE's Investment in Tribal Energy Projects (2002–2014)



DOE has invested **\$48 million** in **183** tribal clean energy projects valued at **\$93.6 million** (2002–2014). DOE's investments were leveraged by **\$45.6 million** in tribal cost-share. Tangible results of those shared investments include:

- Retrofitting **70 tribal buildings** saving tribes more than **10 million kilowatt-hours** of energy and **\$2.5 million** per year
- Completing energy audits on more than **250** tribal buildings
- Moving more than **580 MW** of potential new renewable energy generation into development
- Supporting tribes and Alaska Native villages in assessing the potential for more than **4 gigawatts** of new renewable energy generation
- Providing training to more than **170** tribal project participants

Tribal Resourcefulness Has Yielded Striking Results on the Energy Development Front

Examples include:

- **Osage Nation (OK)**
Two high-performance, energy efficient tribal government buildings
- **Blue Lake Rancheria (CA)**
Biomass, solar, and microgrid projects, plus an EV charging station
- **Forest County Potawatomi (WI)**
Solar powered tribal government building and an anaerobic digestion and biogas generation facility

“Wherever it makes sense, I recommend that tribes develop these [local, regional, state, and federal] partnerships for tribal project roles, because it’s just proven incredibly successful for us.”

—Jana Ganion, Energy Director, Blue Lake Rancheria



FY 2015 Key Accomplishments

- Appointed a **new Director and Deputy Director**; consolidated DOE/EERE's Tribal Energy Program into the Office of Indian Energy Policy and Programs, created a single portal for tribes into the Department.
- Hosted the **2015 National Tribal Energy Summit**, which drew 500 participants representing over 90 Indian Tribes. The Summit featured the **Secretary's Roundtable on Finance** and, in collaboration with DOE's Office of Fossil Energy, a **Special Fossil Roundtable** at the Summit, during which tribes with fossil energy resources requested the creation of a **Tribal Fossil Energy Working Group** to facilitate the responsible development of tribal fossil resources.
- **Awarded \$6 million** to 11 tribal communities to deploy renewable energy and energy efficiency. These projects are expected to result in more than 5 megawatts of new clean energy and save those communities over \$1.2 million per year.
- Launched two new funding initiatives: **Remote Alaskan Communities Energy Efficiency Competition** and **National Intertribal Technical Assistance Energy Provider Network**.
- Provided support to the **White House Council on Native American Affairs/Energy Subcommittee Policy Working Group**; the **Financial and Technical Assistance Working Group**; the **Regulatory Process Working Group**; the **Capacity Building and Workforce Dev. Working Group**; and the **Federal Procurement Working Group**.
- Established an agreement concept for an **MOU with the Department of Interior's Office of Indian Energy and Economic Development** to be more efficient and responsive in the delivery of tribal energy programs and service.
- Released ***Tribal Energy System Vulnerabilities to Climate Change and Extreme Weather***, a groundbreaking climate change report produced by this Office and announced by the President during his 2015 Glacier conference.
- Continued to build experience and capacity with **Native American youth** by participating in both the **Washington Internships for Native Students (WINS)** and funding the **College Student Internship Program** administered by Sandia National Laboratories.

FY 2016 Priorities

- Implement the Office of Indian Energy's **Strategic Roadmap** including building relationships between the Office, DOE, and DOE's national laboratories to help meet increased demand for technical assistance and human capacity building from Indian Tribes including Alaska Native village and regional corporations.
- Deploy the **Intertribal Technical Assistance Energy Providers Network** to help tribal communities build local expertise, skills, knowledge, and resources to implement successful strategic energy solutions for tribes in all regions of the 48 Contiguous States and Alaska.
- Finalize and implement the **MOUs with the Department of the Interior and Alaska Energy Authority**, and begin discussions with University of Alaska and other entities.
- Develop **industry partnerships and promote public/private partnership opportunities** to increase investment in Indian Country and improve access to private capital for development of community- and commercial-scale energy facilities on tribal lands
- **Communicate** the Office of Indian Energy's **priorities and activities** throughout DOE, federal and state agencies, and Indian Country.
- **Provide leadership** and enhance the Office's operational capacity to meet Strategic Objectives.

Strategic Roadmap 2025

1

Promote
Energy
Development

2

Reduce or
Stabilize
Energy Costs

3

Enhance Energy
and Economic
Infrastructure

4

Foster
Electrification

5

Support
Energy
Initiatives



Creating the Opportunities

Strategic Target Areas



People, Communications,
Operational Structure



Partnerships, Relationships,
Communications, Reputation



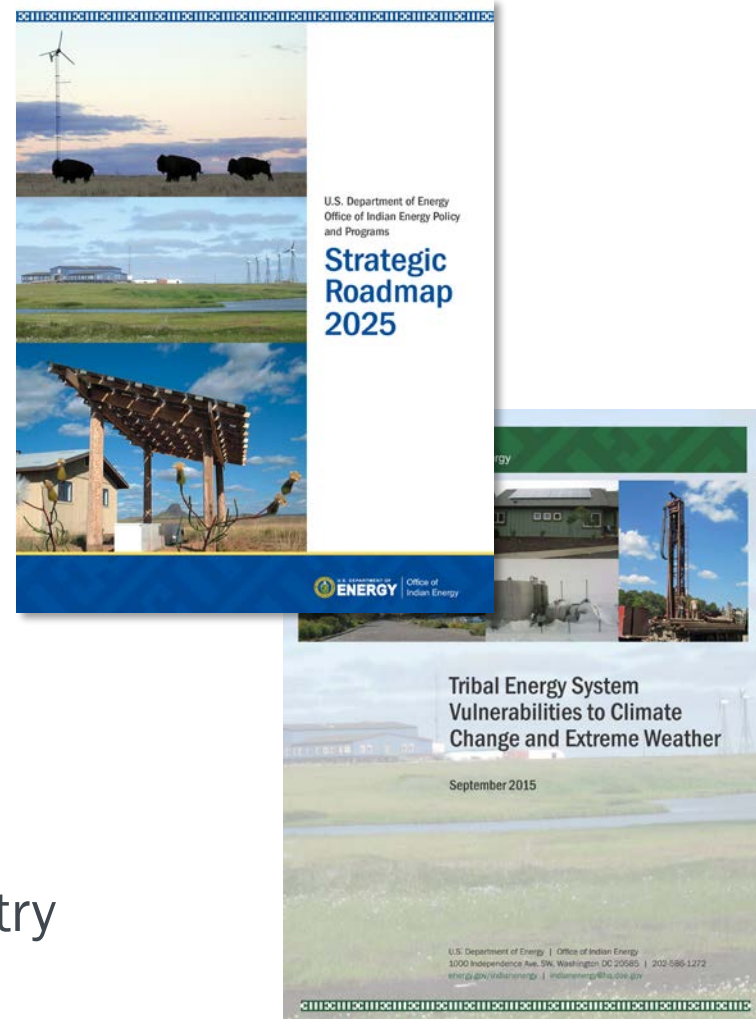
Institutionalize the Office of
Indian Energy



Advance Indian Energy Policy



Maximize Services to Indian Country



Office of Indian Energy: FY 2017 Budget Request

Dollars in Thousands

	FY 2015 Enacted	FY 2015 Current	FY 2016 Enacted	FY 2017 Request	FY 2017 vs FY 2016
Office of Indian Energy Policy and Programs					
Program Direction	1,271	1,271	3,200	4,800	+1,600
Technical Assistance	3,739	3,739	2,900	6,000	+3,100
Tribal Energy Grant Program	10,990	10,990	9,900	12,130	+2,230
Total, Office of Indian Energy Policy and Programs	16,000	16,000	16,000	22,930	+6,930
Federal FTEs	7	7	9	15	+6

- Funds **Direct Technical Assistance (\$6 million)** to meet the demand that has doubled since 2013.
- Funds **Financial Assistance (\$12 million)** in the form of grants for deployment of innovative energy systems and technologies; the efficient delivery of technical assistance through the Intertribal Technical Assistance Networks; and DOE Grid Modernization and Energy-Water Nexus Crosscuts.
- Provides **6 more FTEs within Program Direction (\$4.8 million)** that are critical to carry out the programs, especially in the remote communities in Alaska and the Arctic.
- Implements renewable energy targets of the National Strategy for the Arctic Region (NSAR).
- Requests a stand-alone appropriation to align the budget structure with the program's mission scope and departmental organization as a direct report to the Under Secretary for Science and Energy.

TRIBAL ENERGY *DEPLOYMENT* PROGRAM

- Technical assistance
- Education
- Financial assistance

TRIBAL ENERGY *INNOVATION* PROGRAM

- Science and energy programs coordination
- Inter- and intra-governmental collaboration
- Technology transfer, commercialization, and workforce development

TRIBAL ENERGY *POLICY* PROGRAM

- Arctic program
- Agreements with federal and state agencies
- Cross-cut initiatives and projects
- Tribal and industry dialogues
- Analysis and recommendations

POSITIONING TRIBES TO PROSPER AS PART OF THE NEW ENERGY ECONOMY

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