

DOE OFFICE OF INDIAN ENERGY

Overview of Priorities

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U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

A row of white wind turbines stands in a field of dry grass under a bright blue sky with scattered white clouds. The turbines are arranged in a line, receding into the distance. The foreground shows a dirt path and some low-lying vegetation.

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



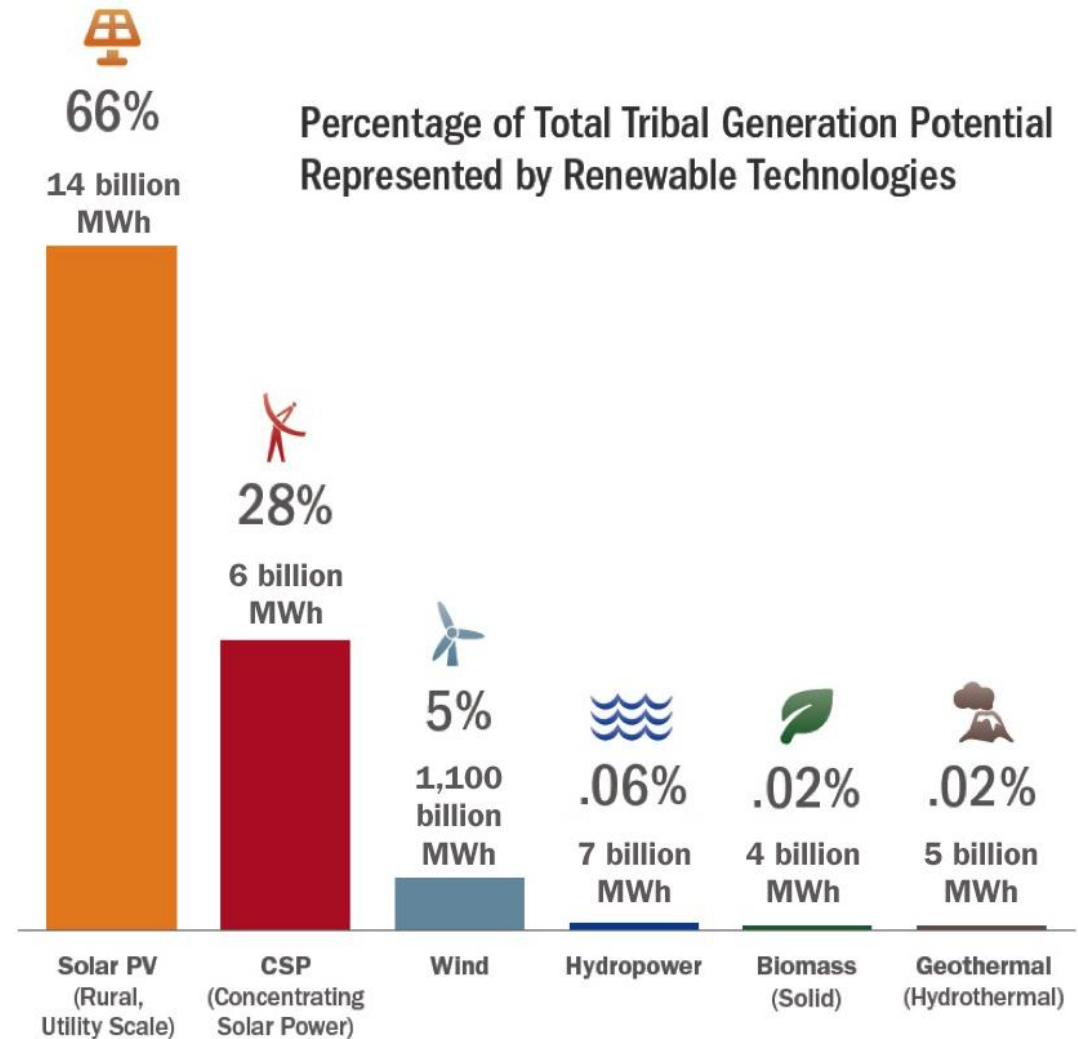
More than **175 remote Alaska village populations** rely almost exclusively on diesel fuel for electricity generation and heating oil for heat. In some rural Alaska communities, electricity costs exceed **\$1.00/kilowatt-hour (kWh)**—more than **8 times** the national average of **\$0.12/kWh**



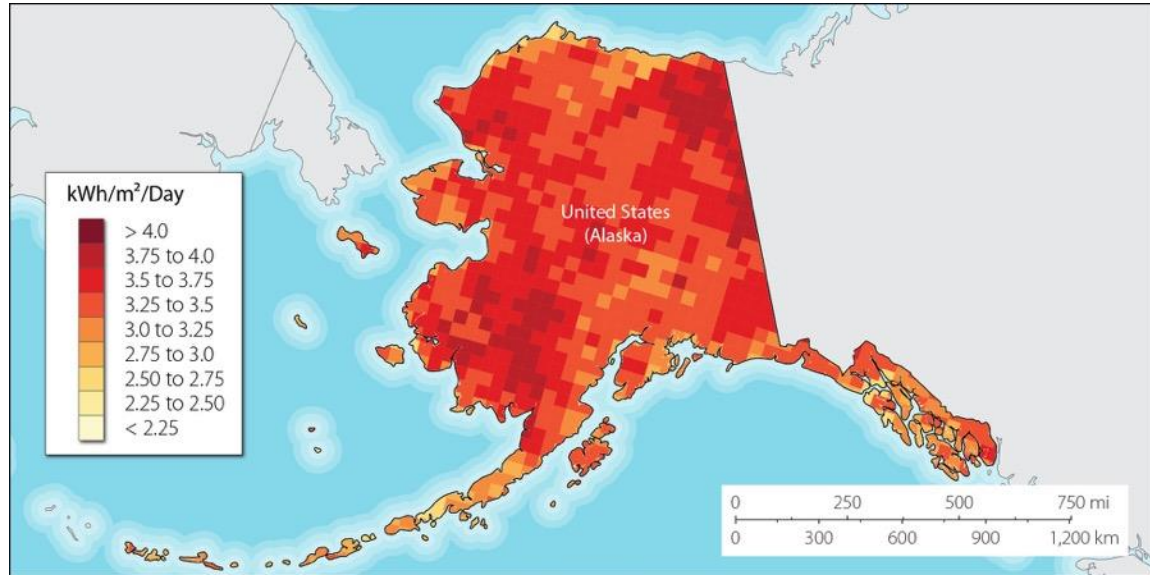
Resource Potential: 48 Contiguous States

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)**.

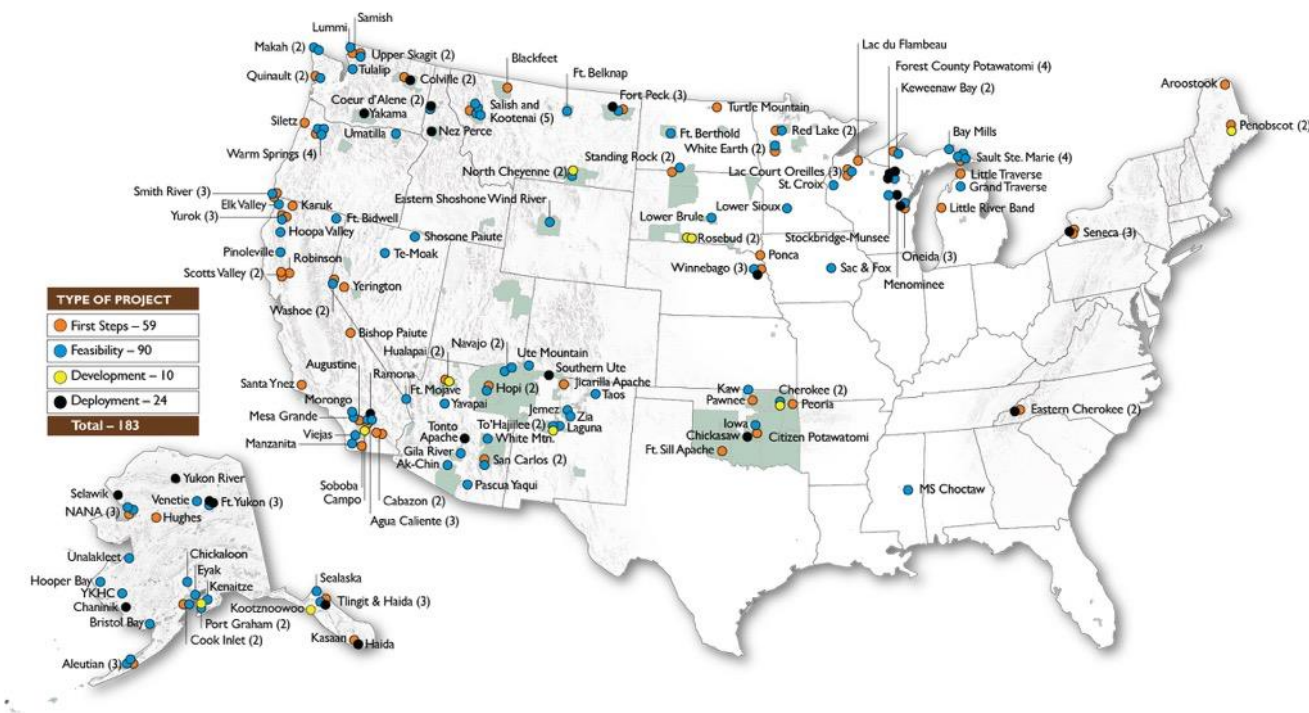


Resource Potential: Alaska



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



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



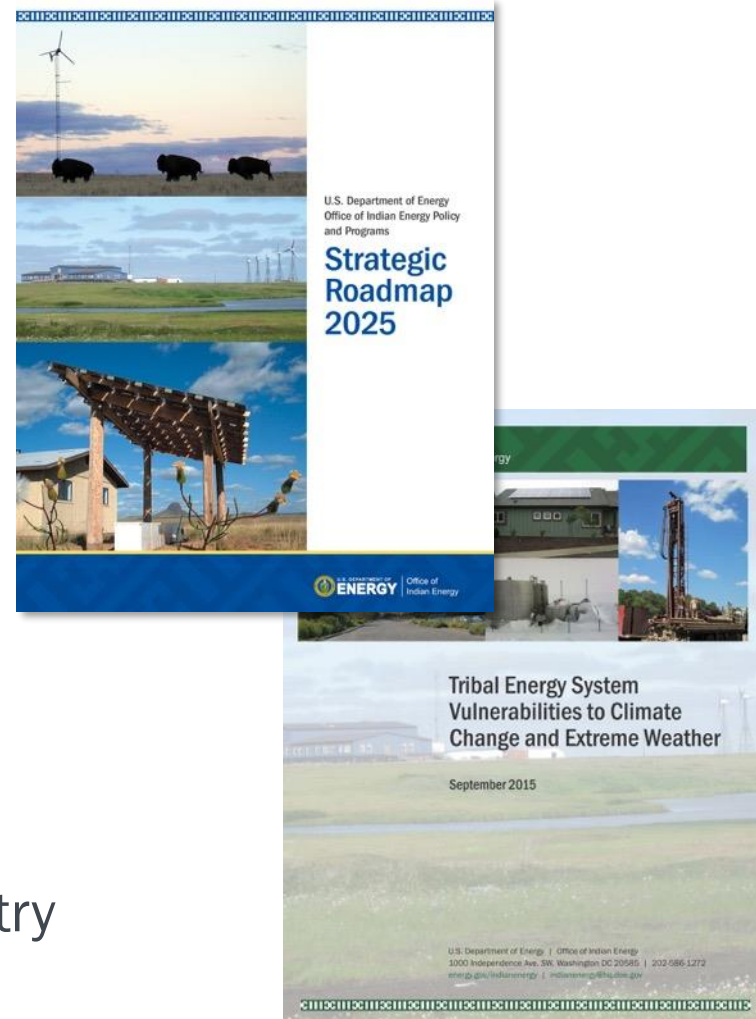
Institutionalize the Office of
Indian Energy



Advance Indian Energy Policy



Maximize Services to Indian Country



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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