

NREL Tribal Energy Program

DOE Technical Support



Technical Assistance Areas

- Program Technical Support
- Project Technical Support
- Capacity Building
- Website Maintenance (Program & Guide)
- Publications & Outreach

Program Technical Support

- **Assist DOE in design & review of solicitations**
(Solicitations in FY '01, '02 & '03 – NREL technology experts)
- **Assist DOE in evaluating new opportunities & program directions** (DOE/CERT/ITEN strategic planning sessions in Dec. '01, Jan. '03, Nov '03 & internal TEP team discussions)
- **Support DOE in intra- and inter-governmental coordination** (DOE-PO, DOE-Weatherization, BIA, EPA)
- **Provide support to specific tribal and tribal organization requests** (CERT annual meetings, Crow)



Project Technical Support

- Cross-technology linkages –
 - Wind-Powering America & Anemometer Loan Program
 - Geo-Powering the West
 - Biomass technology initiatives (SMB)
 - Hybrid power systems for diesel replacement
- RE Resource Assessment
- Analysis models (HOMER, Hybrid 2, Energy-10)
- Strategic energy planning and policy support
- Specific requests (Tribal college wind maps)



Project Technical Support

FY02 Awards			
1	005	Colville Confederated Tribes	- complete -
2	024	Ramona Band of Cahuilla Indians	Sandra Begay-Campbell Roger Taylor
3	017	Northern Cheyenne Nation, Inc.	OK
4	037	Sault Ste. Marie Tribe	Tony Jimenez
5	016	Mississippi Band of Choctaw Indians	John Scahill
6	007	Confederated Tribes of Warm Springs	Larry Flowers
7	023	Pueblo of Jemez	Sandra Begay-Campbell
8	025	Sealaska Native Corporation	OK
9	035	Confederated Tribe-Umatilla Indian Rez	Roger Taylor
10	011	Kaw Nation of Oklahoma	OK
11	032	Yukon-Kuskokwim Health Corporation	Larry Flowers Ian Baring-Gould
12	002	White Mountain Apache	John Scahill
13	013	Makah Tribe Council	OK
14	014	Manzanita Band of Mission Indians	Tony Jimenez

FY02 Selection, FY03 Awards			
1	030	The Tulalip Tribes	John Scahill
2	027	Taos Pueblo	Sandra Begay-Campbell
3	031	Viejas Tribal Government	Roger Taylor
4	038	Shoshone-Paiute Tribes	OK
5	026	St. Croix Tribal Government	John Scahill
6	004	Cherokee Nation	Larry Flowers
7	003	Bristol Bay Native Corporation (BBNC)	Larry Flowers
8	018	The Lower Brule Sioux Tribe Tribal Government	Larry Flowers
FY03 "First Steps"			
1	12	The Hopi Tribe	Roger Taylor
2	11	Smith River Rancheria	Roger Taylor
3	01	Cabazon Band of Mission Indians	Roger Taylor
4	10	Seneca Nation of Indians	Roger Taylor
5	16	White Earth Reservation	Roger Taylor
6	03	Citizen Potawatomi Nation	Roger Taylor
7	20	Fort Sill Apache Tribe of Oklahoma	Roger Taylor
8	15	Yurok Tribe	Roger Taylor
9	09	Samish Indian Nation	Roger Taylor

FY03 Awards			
1	56	Rosebud Sioux Tribe	OK
2	33	Northern Cheyenne Tribe, Inc.	OK
3	09	Assiniboine & Sioux Tribes of the Fort Peck Reservation	OK
4	32	Native Village of Venetie Tribal Government	Roger Taylor Ian Baring-Gould
5	27	The Makah Indian Nation	OK
6	16	Red Lake Band of Chippewa Indians	John Scahill
7	29	Fort Mojave Tribe	Roger Taylor
Awards?			
8	06	Kenaitze Indian Tribe, IRA	TBD
9	10	Affiliated Tribes of the Fort Berthold Reservation	TBD
10	01	Ak-Chin Indian Community	TBD
11	55	Quinault Indian Nation	TBD
12	15	S & K Holding Company, Inc.	TBD
13	12	Yavapai-Apache Nation	TBD
14	04	Mesa Grande Band of Mission Indians	TBD



Capacity Building

- **CERT renewables conferences**
 - Booths, RE tutorials, proposal writing
- **DOE/CERT/ITEN RE Handbook workshop**
 - Tribal Energy Guide (below)
- **PETE community college instructor training**
 - Tribal College – Teach the Teachers (below)
- **Regional Strategic Energy Planning Workshops**
 - Earmark coordination with CERT



TEP Website Maintenance



U.S. Department of Energy

Office of Energy Efficiency and Renewable Energy Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

Weatherization & Intergovernmental Program Tribal Energy Program

About the Program

[TEP Program Background](#)
[How We're Organized](#)

Contact Us

Funding Opportunities

Projects on Tribal Lands

[Title XXVI \(1994-1995\)](#)
[Remote Applications \(1999\)](#)
[Tribal Colleges \(2000-01\)](#)
[FY2002 Projects \(2002\)](#)
[FY2003 Projects \(2003\)](#)
[Other DOE Projects](#)

Information Resources

[Tribal Energy Programs](#)
[DOE Organizations](#)
[Federal Organizations](#)
[Tribal Organizations](#)
[Other Organizations](#)
[Reports and Additional Information](#)

Tribal Energy Program

Welcome to the Department of Energy's Tribal Energy Program Web site. The Tribal Energy Program, under the Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy, provides financial and technical assistance to tribes for feasibility studies and shares the cost of implementing sustainable renewable energy installations on tribal lands. This program promotes tribal energy self-sufficiency and fosters employment and economic development on America's tribal lands.

This Web site provides information about Native American renewable energy and energy efficiency projects that have been funded by the Department of Energy. The site includes valuable information such as: business opportunities, including the latest tribal energy solicitation; case studies on renewable energy projects on tribal lands; reports and resources; and links to other relevant sites.

Current Events

Feature



Renewable Energy Development on Tribal Lands brochure
[\(PDF 731 KB\)](#)

DOE NEWS

Energy Department to Fund Tribes' First Steps' In Developing Clean Energy
[\(PDF 104 KB\)](#)

Energy Department Awards Spur Development Of Tribes' Renewable Energy Resources
[\(PDF 93 KB\)](#)

[Download Acrobat Reader.](#)



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[EERE Home](#)

A Guide to Tribal Energy Development

About this Site

The Development Process

[Strategic Planning](#)
[Evaluating Options](#)
[Organizational Development](#)
[Project Development](#)

Resource Library

[Cultural Issues](#)
[Assessing Energy Resources](#)
[Energy Technologies](#)
[The Electrical Grid](#)
[Environmental Considerations](#)
[The Costs](#)
[Risk Factors](#)
[Legal Issues](#)
[Financing Options](#)
[Who To Contact](#)

Case Studies

Publication Index

Glossary

The Rosebud Sioux Indian Reservation located in south-central South Dakota, is now home to a 750-kilowatt wind turbine. Erected near the Rosebud Casino and Convention Center, the new wind turbine is helping to power that facility while earning money by selling excess power to the Basin Electric Power Cooperative.

"Generating our own energy will help our tribe develop a sustainable homeland economy on the reservation in the short term and strengthen our tribal sovereignty in the long term," says Ronald L. Neiss, an enrolled member of the tribe and president of the Rosebud Sioux Tribe Utility Commission. "A tribe is only as sovereign as its economy and finances permit. One of our tribal goals is energy self-sufficiency, and developing our renewable energy resources will help us achieve that goal."

Tribal energy development can serve many goals: economic development, electrification, self-sufficiency, clean air...the list is as long as you wish to make it. With support from the U.S. Department of Energy's [Tribal Energy Program](#), this Web site is intended to give you the information you need to achieve your energy goals. [Learn more about this site, and how to use it.](#)

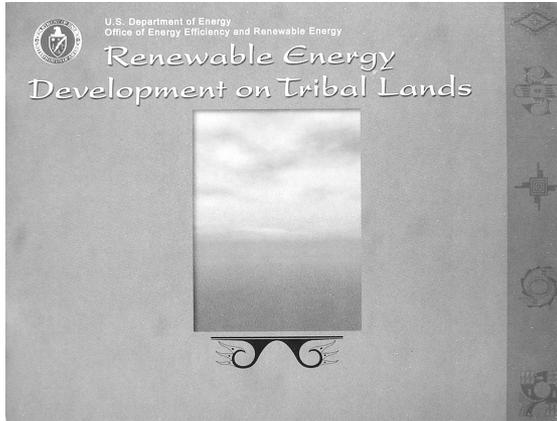
What's New



This is a preliminary version of the Tribal Energy Development Web site and is intended for review purposes only. We continue to add content to this site, and we welcome your feedback and suggestions. Please send any comments or suggestions via email by clicking on the Webmaster link, which is located at the bottom of each page, or by sending an email to: tribal_energy_dev@nrel.gov



Publications & Outreach



U.S. DEPARTMENT OF ENERGY TRIBAL ENERGY PROGRAM

ABOUT THE PROGRAM

Purpose

The Tribal Energy Program under the Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy provides financial and technical assistance to Tribes for feasibility studies and shares the cost of implementing sustainable renewable energy installations on tribal lands.

The program promotes tribal energy self-sufficiency and fosters employment and economic development on tribal lands through the use of renewable energy.

Policy

The U.S. Department of Energy American Indian and Alaska Native Tribal Government Policy sets forth principles to be followed by DOE to ensure an effective implementation of a government-to-government relationship with American Indians and Alaska Native tribal governments. Through the authorities set forth in EPAct and the Executive Orders, DOE is seeking to support energy self-sufficiency on Tribal Lands and support the trust responsibility set forth in DOE's American Indian and Alaska Native Tribal Government Policy.

For the policy, visit www.em.doe.gov/public/tribal/policy2.html.

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Three Affiliated Tribes

Wind Monitoring for Utility-Scale Turbine Demonstration

Onida Tribe of Indians of Wisconsin

Pueblo of Laguna Solar Electric

Use Mountain Indian Reservation PV Water Pumping

For general inquiries or information, contact the Energy Efficiency and Renewable Energy Clearinghouse at 1-800-DOE-EREC (363-3732) or doe.erec@nrcinc.com

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U.S. DEPARTMENT OF ENERGY TRIBAL ENERGY PROGRAM

Wind Energy

Wind energy can generate electricity, charge batteries, pump water, grind grain, or power homes and businesses. Large, modern wind turbines grouped together in wind farms produce electricity for utilities. Small turbines are used by homeowners and remote villages to help meet energy needs.

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Areas designated class 4 or greater are suitable for most utility-scale wind turbine applications, whereas class 2 and 3 areas are marginal for utility-scale applications but may be suitable for rural applications.

For renewable energy resource information, visit DOE's National Renewable Energy Laboratory Renewable Resource Data Center at <http://rredc.nrel.gov/>

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Solar Energy

A plot of land in the southwest 100 miles on a side could generate all the electricity used in the U.S.

Biomass Energy

Biomass is a sustainable renewable resource that can be used as a fuel for producing electric power and other energy products. Materials such as wood chips, rice straw, switchgrass, bagasse (sugar cane waste) and corn have been used to produce electricity and transportation fuels, such as methanol and ethanol.

Geothermal Energy

Geo (Earth) thermal (heat) energy is an enormous, underused heat and power resource that emits little or no greenhouse gases, is reliable (averaging 95% system availability), and reduces our dependence on foreign oil.

About 2,800 megawatts (MW) of geothermal electricity are currently produced in the United States. Today's technology produces electricity from hydrothermal (hot water/steam) resources.

Hydropower

Hydropower plants capture the kinetic energy of falling water to generate electricity, using a turbine and a generator to convert the energy from the water to mechanical and then electrical energy. Hydropower currently contributes the greatest share of renewable electricity generation in the United States.

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