DOE’s Tribal Energy Program

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www.eere.energy.gov/tribalenergy
Department of Energy

Advancing Energy and National Security through Science, Technology and Environmental Stewardship

Contributes to the future of the Nation by ensuring energy security, maintaining the safety, security and reliability of the nuclear weapons stockpile, cleaning up the environment from the legacy of the Cold War, and developing innovations in science and technology

Managed by Program Offices:

- Civilian Radioactive Waste Management
- Electricity Delivery and Energy Reliability
- Energy Efficiency & Renewable Energy
- Environmental Management
- Fossil Energy
- Legacy Management
- Nuclear Energy
- Science

Principally, a National Security Agency
Energy Efficiency and Renewable Energy

Clean Energy for America’s Future

Invests in clean energy technologies that:

• Strengthen the economy,
• Protect the environment, and
• Reduce dependence on foreign oil

Leverages partnerships to speed the adoption of new technologies in renewable energy, advanced vehicles and fuels, and energy efficiency.

* Operates a budget of $2.2 billion and responsible for investing more than $16 billion in Recovery Act funds.
DOE’s Tribal Energy Program

“Indian land comprises 5% of the land area of the United States, but contains an estimated 10% of all energy resources in the United States”

Tribal Trust Lands Comprise 55.7 Million Acres (Per BIA)

~565 Federally Recognized Tribes

Tribal energy resource development can support local economies and Tribal sovereignty
**DOE’s Tribal Energy Program**

**Abundant Renewable Resources**

Wind Potential on Tribal Lands **about 14%** of 2004 U.S. Annual Electric Generation or about 535 Billion kWh/yr on **Indian Lands** in Lower 48 States (NREL 2004)

Solar Electric Potential on Tribal Lands **~4.5 times** the Total U.S. Electric Generation in 2004 or 17,600 Billion kWh/yr on **Indian Lands** in Lower 48 States (NREL 2004)
DOE’s Tribal Energy Program

Promote tribal energy sufficiency, economic development and employment on tribal lands through the use of renewable energy and energy efficiency technologies

DOE’s Tribal Energy Program

Mission

Offering financial and technical assistance to Tribes through government-to-government partnerships that:

1) Empower Tribal leaders to make informed decisions about energy choices;
2) Bring renewable energy and energy efficiency options to Indian Country;
3) Enhance human capacity through education and training;
4) Improve local Tribal economies and the environment; and
5) Make a difference in the quality of life of Native Americans.
DOE’s Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE’s Laboratories.
DOE’s Tribal Energy Program

Program Funding History

Program budget has averaged less than $6.0 million per year

$20 Million/Year Authorized in Title V, Indian Energy, EPAct 2005
## Tribal Energy Program (TEP) Funding

<table>
<thead>
<tr>
<th></th>
<th>FY2009</th>
<th>FY2010</th>
<th>FY2011</th>
</tr>
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<tbody>
<tr>
<td><strong>DOE Request</strong></td>
<td>$1.0</td>
<td>$6.0</td>
<td>$10.0</td>
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<tr>
<td><strong>Appropriated Funds</strong></td>
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<td><strong>Senate Mark</strong></td>
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<tr>
<td><strong>House Marks</strong></td>
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</table>

*Amounts in Millions*
DOE’s Tribal Energy Program

Three Pronged Approach

Financial Assistance

Technical Assistance

Success through Government-to-Government Partnerships

Leveraged through Intergovernmental Coordination

Leveraged with Intra-governmental Coordination

Information & Education
DOE’s Tribal Energy Program

Three Pronged Approach

Financial Assistance

Success through Government-to-Government Partnerships

Technical Assistance

Information & Education

Leveraged through Intergovernmental Coordination

Leveraged with Intragovernmental Coordination

Success through Government-to-Government Partnerships
Providing Financial Assistance

Providing financial and technical assistance to Tribes for the evaluation and development of renewable energy resources on Tribal Lands

Eligibility:

Federally-recognized Tribe, Tribal Energy Resource Development Organization, or Tribal Consortium (two or more entities, at least one of which is an Indian Tribe).

Tribal Lands include Indian reservations; Public domain Indian allotments; Former Indian reservations in Oklahoma; Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and Lands held in fee simple or under a Federal land lease.

Funds Awarded through a Competitive Process
FY2011 Financial Assistance

Financial Assistance to Spur Deployment in Indian Country

- First Steps Toward Developing Energy Efficiency and Renewable Energy on Tribal Lands
  - Strategic energy planning
  - Energy options analysis
  - Energy organization development
  - Human capacity development

- Energy Efficiency Development and Deployment in Indian Country
  - Feasibility Studies
  - Installation of energy efficiency improvements

Solar arrays on Navajo home
FY2011 Financial Assistance

Financial Assistance to Spur Deployment in Indian Country

- Renewable Energy Development and Deployment in Indian Country
  - Feasibility Studies
  - Development (pre-construction) activities
  - Deployment (construction) activities

- To apply, you must be registered in Grants.gov
- Registration may take up to 21 days to complete
- For more, see http://www.grants.gov/GetStarted
- Verify you are registered by contacting the Grants.gov Helpdesk
- For assistance help, contact Grants.gov Helpdesk at 1-800-518-4726 or support@grants.gov

Applications must be submitted electronically through Grants.gov
## Project Pipeline

### Investment in Tribal Energy Sufficiency

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Number of Awards</th>
<th>DOE Funding</th>
<th>Cost Share</th>
<th>Project Costs</th>
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<tbody>
<tr>
<td>2002</td>
<td>14</td>
<td>$3.08</td>
<td>$0.76</td>
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<tr>
<td>2003</td>
<td>24</td>
<td>$4.38</td>
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<td>2004</td>
<td>7</td>
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<td>2005</td>
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<td>$0.94</td>
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<td>2008</td>
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<td>$2.30</td>
<td>$4.60</td>
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<tr>
<td>2009*</td>
<td>-</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>2010</td>
<td>36</td>
<td>$13.95</td>
<td>$22.71</td>
<td>$36.66</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>129</strong></td>
<td><strong>$30.40</strong></td>
<td><strong>$29.10</strong></td>
<td><strong>$59.50</strong></td>
</tr>
</tbody>
</table>

* FY2009 funds carried over and used to fund projects awarded in FY2010
FY2009 funds carried over and used to fund projects awarded in FY2010

Creating a Project Pipeline while Building Human Capacity

Investment of $30.4 Million

* FY2009 funds carried over and used to fund projects awarded in FY2010
DOE has Funded 129 Tribal Energy Projects Totaling $30.4 Million (2002-2010)
Tribal Energy Project Pipeline

Diverse Renewable Energy Resources in Various Stages of Development

Assisting Tribes Fulfill Their Energy Vision
DOE’s Tribal Energy Program

Three Pronged Approach

- Information & Education
  - Leveraged through Intergovernmental Coordination
- Technical Assistance
  - Success through Government-to-Government Partnerships
  - Leveraged with Intragovernmental Coordination
- Financial Assistance
Providing Technical Assistance

Technical Assistance

- Technology Advice
- Models and Tools
- Resource Maps
- Strategic Energy Planning
- Pre-Feasibility Transmission Studies
- Project Support
- Economic Evaluation
- Design Review
- Special Studies

National Renewable Energy Laboratory (NREL)
Science & Technology Facility and Solar Energy Research Facility (SERF)

Western Area Power Administration

Sandia National Laboratories
Technical Assistance Requests for Tribes

The application process is quick and easy: complete the request form and forward it to tribal@go.doe.gov. Soon to be web-based.

The value of technical assistance for Tribes is typically limited to 40 hours and may include, but is not limited to, renewable energy technology information, renewable resource information, energy efficiency techniques, project support, system performance modeling, policy information, design review, special studies, strategic energy planning, pre-feasibility transmission studies, and training.

Technical Assistance Request Form at www.eere.energy.gov/tribalenergy/tech_assistance.cfm
DOE’s Tribal Energy Program
Three Pronged Approach

- Financial Assistance
  - Leveraged through Intergovernmental Coordination

- Technical Assistance
  - Leveraged with Intragovernmental Coordination

- Information & Education
  - Success through Government-to-Government Partnerships

Success through Government-to-Government Partnerships
Annual Program Review

Unique Tribal Forum for Sharing and Learning

- Forum for Tribes to meet and learn from other Tribes pursuing energy sufficiency through renewable energy and energy efficiency, and share in their successes
- Networking & learning opportunity
- Tribal project presentations – lessons learned.
- Forty to fifty (40-50) tribal energy projects represented
- Typically 200-250 participants

Held Annually in Denver, CO
Information Resources

Tribal Energy Website
Guide to Tribal Energy Development

Join Our Email List
For Information on funding opportunities, workshops & training, and other tribal energy information
Email tribal@go.doe.gov
Student Summer Internships

Requirements
- Must be a U.S. citizen and a **Native American**, defined as a member of a federally recognized tribe, Alaska Village, or Alaska Corporation

Application Process
- Applications due in February
- 12 week internships at Sandia National Laboratories (NM)
- Contact Sandra Begay-Campbell at (505) 844-5418 or skbegay@sandia.gov
- Application form posted on TEP website annually

Interns
- Twenty-one (21) interns sponsored since 2002

Student Paper and Workshop Materials
- Posted on TEP Website
Assisting Tribes Achieve Their Energy Vision

One of the World’s Northern-most Tribally owned Solar system

Solar Installations at Pueblo of Laguna’s Majors Ranch

Solar Electric Carport at SIPI’s Science and Technology Building
Commitments to the Future

Augustine Band of Cahuilla Indian’s (CA) installed the “largest” (1.1 MW) solar electric system in Indian Country (February 2009).

Tulalip Tribe’s (WA) used an anaerobic digester to reduce dairy waste pollution in the groundwater and salmon stream.

Ramona Band used renewables to power planned ecotourism business.
Energy Efficiency and Conservation Block Grants (EECBG) Program

Purpose

(1) Reduce fossil fuel emissions created as a result of activities within the jurisdictions of eligible entities in a manner that—
   (A) is environmentally sustainable; and
   (B) to the maximum extent practicable, maximizes benefits for local and regional communities;

(2) Reduce the total energy use of the eligible entities; and

(3) Improve energy efficiency in—
   (A) the transportation sector;
   (B) the building sector; and
   (C) other appropriate sectors.

Total of $3.2 Billion Appropriated
2% Tribal Set-aside (~$54 Million)
Tribal Energy Efficiency and Conservation Block Grants (EECBG)

- Awarded $53.4 million to Federally Recognized Tribes and Alaska Regional Corporations via formula grants
- Total of 424 grants, representing 538 funding allocations awarded (“group” awards)

Formula:
- Indian Tribes—Of amounts available for distribution to Indian Tribes under subsection (a)(3), the Secretary shall establish a formula for allocations to Indian Tribes, taking into account any factors that the Secretary determines appropriate.
- The formula for tribal governments is based on two weighted factors:
  - Tribal population (Weighted at 75%), and
  - Climatic conditions - heating and cooling degree days (Weighted at 25%).

Tribal Team at Golden Field Office Overseeing the Tribal EECBG grants
Tribal Energy Efficiency & Conservation Grants (EECBG)

REGIONS BY PROJECT OFFICER

Region 1: Alaska & NW
PO: Paul Dearhouse

Region 2: CA & Mountains
PO: Tsali Cross

Region 3: Central, East & SW
PO: Albert Bond

States in white designate States where there are no Tribal EECBG projects
Tribal Energy Efficiency and Conservation Block Grants (EECBG)

- EECBG Webinars

- EECBG Blog

- Solution Center
  - Best practices and tools
  - Accessible from eecbg.energy.gov

- Technical Assistance Center
  - Call 1-877-EERE-TAP (1-877-337-3827)
  - [https://tac.eecleanenergy.org/?TAR=TARequest.aspx](https://tac.eecleanenergy.org/?TAR=TARequest.aspx)

Or Contact Your Project Officer, Project Monitor or E-mail tribal@go.doe.gov or Call (720) 356-1360
Contact Information

Tribal Energy Program
Department of Energy
Golden Field Office
Telephone: (720) 356-1352 (Main)
Email: tribal@go.doe.gov

To receive periodic email information on funding opportunities, upcoming workshops and training, and other tribal energy information

“Join Our Email” list by sending your contact information to tribal@go.doe.gov

All presentation materials will be posted
Questions

“Tribes Lead the Way to Renewable Energy”

American Indian Report
June 2002